**This document contains lists of thesis done by Masters’ students at NCIT**

Name: Satish Maleku Roll: 2015-1-39-0020

Thesis Title: Detection of Web Attacks using Deep Learning for Web Application Firewall

Supervisor: Er Kumar Pudashine

Name: Durga Bhandari Roll: 2013-1-39-0004

Thesis Title: Log Based Insider Threat Detection Using LSTM

Supervisor: Er Kumar Pudashine

Name: Sherin Joshi Roll: 2018-1-23-0038

Thesis Title: Forecasting Particulate Matter 2.5 using a Hybrid CNN-BiGRU Model with Attention Mechanism

Name: Bijayasri Barun Roll: 2018-1-23-0023

**Thesis Title:** Insect Pest Classification in Rice Plant using Patch-Wise Attention Based Densenet

Supervisor: Dr Ashim Khadka

Name: Lalita KC Roll: 2018-1-39-0038

Thesis Title: Aspect Based Sentiment Analysis of Nepali Offensive Language Using POS Tagging and Word2Vec with SVM Model

Supervisor: Dr Ashim Khadka

Name: Parichaya Adhikari Roll: 2019-2-92-0015

Thesis Title: Lake Surface Temperature Prediction using Gradient Boosting based on LSTM and Transformer

Name: Samraat Maharjan Roll: 2019-1-23-0032

Thesis Title: Fake News Classification through Additional Attributes Integration and using TF-IDF and Glove

Name: Sivam Sharma Roll: 2019-1-39-0085

Thesis Title: Enhancement of Antenna Performance in IoT Sensor using Graphene

Supervisor: Dr Ashim Khadka

Name: Priyanka Kumari Jha Roll: 2020-2-92-0037

Thesis Title: Cash Recognition System for Nepali Currency using Global Context Vision Transformer

Supervisor: Dr Roshan Chitrakar

Name: Navin Kishor Sharma Roll: 2019-1-39-0011

**Thesis Title:** Impact and Relationship of Kernel size and Number of Filters on Image Classification Accuracy in CNN

Supervisor: Dr Roshan Chitrakar

Name: Prabin Khatri Roll: 2019-2-92-0038

Thesis Title: Improving Sentiment Analysis in E-Commerce Product Review by Handling Lengthened Words

Supervisor: Dr Roshan Chitrakar

Name: Radha Kumari Sah Roll: 2020-1-39-0041

Thesis Title: Enhancement of Credit Cardf Fraud Detection using Temporal Convolutional Network

Supervisor: Dr Roshan Chitrakar

Name: Shree Krishna Acharya Roll: 2019-2-92-0026

Thesis Title: Student Grade Prediction including Socio-demographic Features

Supervisor: Dr Basanta Joshi

Name: Bikash Ghimirey Roll: 2019-1-39-0002

**Thesis Title:** Optimizing VGG16 Hyperparameters for Effective COVID-19 Classification

Supervisor: Dr Roshan Chitrakar

Name: Bipin Maharjan Roll: 2020-1-23-0020

Thesis Title: Image Captioning in Nepali Language using Full Transformer Network

Name: Krishna Bhandari Roll: 2019-01-39-0009

Thesis Title: Enhancing Breast Cancer Detection using CLAHE and Ensemble Techniques

Name: Surangana Bomdzon Roll: 2018-1-23-0040

Thesis Title: An Ensemble Stacking Model for Predicting Resale Value of Used Vehicles

Supervisor: Dr Ashim Khadka

Name: Tika Ram Khojwar Roll: 2020-2-92-0018

Thesis Title: Enhance the Fine-Grained Part-of-Speech Tagging for Nepali Text using BiLSTM-CRF with Word2Vec

Supervisor: Dr Pradip Paudyal

Name: Ashok Kunwar Roll No : 2020-1-39-0034

Thesis Title: Enhancing Nepali License Plate Recognition using YOLO v8 and CNN-ELM

Supervisor: Dr Ashim Khadka

Name: Bikash Ghimirey Roll: 2019-1-39-0002

**Thesis Title:** Optimizing VGG16 Hyperparameters for Effective COVID-19 Classification

Supervisor: Dr Roshan Chitrakar

Name: Rupak Gyawali Roll: 2019-1-39-0077

Thesis Title: Light Weight CNN Model for Predicting the Handwriting of Ranjana Script

Supervisor: Prof Dr Shashidhar Ram Joshi

Name: Avinash Maskey Roll: 2020-2-92-0001

Thesis Title: Forecasting Stock Exchange Sector Indices using Granger Causality and VAR Model

Supervisor: Dr Suresh Pokharel

Name: Krishna Bhandari Roll: 2019-01-39-0009

Thesis Title: Enhancing Breast Cancer Detection using CLAHE and Ensemble Techniques

Name: Ayush Dhital Roll: 2018-1-23-0020

Thesis Title: Climate Forecasting using Ensemble Time Series Forecasting Models

Supervisor: Dr Ashim Khadka

Name: Dipendra Kumar Shrestha Roll: 2019-1-23-0003

Thesis Title: Memetic Differential Evolution Algorithm with Spectral Clustering for Text Documentation

Name: Parichaya Pandey Roll: 2019-2-92-0037

Thesis Title: A Study on Factors Affecting Screen Time Feature on Usage of Andriod/iOS Devices

Name: Pushkar Deo Roll: 2019-1-39-0015

Thesis Title: Forgery Image Detection using Hybrid Feature Extraction and CNN Classification

Supervisor: Dr Roshan Chitrakar

Name: Rajesh Lohala Roll: 2019-1-92-0021

Thesis Title: Ranjana Lipi Handwritten Character Generation Using Conditional Generative Adversarial Network

Supervisor: Dr Roshan Chitrakar

Name: Sahodar Dhungana Roll: 2019-1-23-0031

Thesis Title: Facial Emotion Recognition with Vision Transformer and Multi-Layer Perceptron

Supervisor: Dr Roshan Chitrakar

Name: Shikha Sharma Roll: 2019-2-92-0046

Thesis Title: Analyzing Factors Influencing Student Acceptance of Online Learning Platform: Based on UTAUT

Name: Shreekhanda Parajuli Roll: 2019-1-23-0019

Thesis Title: Brain Tumor Classification using Magnetic Resonance Images with Attention based CNN

Name: Sravan Ghimire Roll: 2020-1-39-0029

Thesis Title: Screening COVID-19 Patient from CT images using LDA, CNN and RNN

Name: Shreeraj Khatiwada Roll: 2019-1-23-0018

Thesis Title: Performance Enhancement of Steel Plate Fault Detection using Synthetic Data

Supervisor: Dr Ashim Khadka

Name: Santosh Kumar Yadav Roll No : 2020-1-39-0025

Thesis Title: Enhancement of Microbial Pathogen Classification using SGDR and DFT in ResNet 50

Name: Sachin Shrestha Roll: 2018-1-23-0036

Thesis Title: A Hybrid Model using Wavelet Neural Network and Artificial Neural Network for Financial Market Forecasting

Supervisor: Prof Dr Roshan Chitrakar

Name: Santosh Paudel Roll No : 2020-1-39-0044

Thesis Title: Active Learning Techniques to Improve SVM-based Facial Expression Recognition and D ataset Labelling

Name: Yam Nath Aryal Roll: 2018-1-39-0059

Thesis Title: Transformer Based Framework for Financial Timeseries Prediction

Supervisor: Er Niranjan Khakurel

Name: Pushpa Pandey Roll: 2018-1-46-0045

Thesis Title: Factors Affecting Merchant Adoption of the QR Code Payment in MSMEs Inside Kathmandu Valley

Supervisor: Er Niranjan Khakurel

Name: Hasina Shakya Roll No : 2020-1-23-0007

Thesis Title: Deepfake Video Detection System using CNN and LSTM

Name: Nabaraj Ghimire Roll: 2020-1-39-0039

Thesis Title: Transformer based Neural Machine Translation for English - Nepali Language Pair

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Thesis Title: COVID-19 Screening in Chest X-ray Images using Ensemble CNN Based Models

Name: Akash GC Roll: 2020-1-23-0001  
Thesis Title: Predicting Employee Attrition using an Ensemble Method

Supervisor: Prof Dr Roshan Chitrakar

Name: Grishma Poudel Roll: 2019-1-39-0069

Thesis Title: Improved Object Detection in UAV images using Deep Learning

Supervisor: Dr Sanjeeb P Panday

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Thesis Title: Age and gender detection using Convolutional Neural Network

Supervisor: Er Niranjan Khakurel

Name: Tanka Raj Pandey Roll: 2019-1-39-0028

Thesis Title: Classification of Retinal Disorders from OCT images using Attention based CNN

Supervisor: Dr Ashim Khadka

Name: Ashin Shakya Roll: 2019-1-39-0033

Thesis Title: Nepali Text Prediction using Bi-directional LSTM with Attention Mechanism

Supervisor: Dr Basanta Joshi

Name: Roshan Konda Roll: 2018-1-23-0010

Thesis Title: Pulmonary Tuberculosis Diagnosis using Convolution Neural Network with CXR Image Patches and Modified U-net

Supervisor: Dr Basanta Joshi

Name: Simran Gurung Roll: 2019-2-92-0028

Thesis Title: Ensemble Learning Prediction Model for Enhancing Performance on Breast Cancer Dataset

Supervisor: Dr Ashim Khadka

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Thesis Title: Nepali Image Caption Generation using CNN-Transformer

Supervisor: Dr Basanta Joshi

Name: Tika Dahal Roll: 2018-1-39-0055

Thesis Title: Trajectory Prediction of Autonomous Vechicle using Transformer Model

Supervisor: Er Niranjan Khakurel

Name: Anjan Acharya Roll: 2018-1-39-0031

Thesis Title: Traffic Congestion Prediction Based on GPS Data and Vechicle Speed

Supervisor: Er Niranjan Khakurel

Name: Jivraj Upadhyay Roll: 2018-1-39-0036

Thesis Title: Performance Enhancement of SVM using Geometric Augmentation and Deep Learning Based Augmentation Technique

Supervisor: Dr Sanjeeb P Panday

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Thesis Title: Insider Threat Detection by Formulating User’s Events Pattern using Masked Language Model

Supervisor: Prof Dr Roshan Chitrakar

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Thesis Title: Hybrid Deep Learning Approach for Fake Nepali Currency Detection using CNN and LSTM

Supervisor: Prof Dr Roshan Chitrakar

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Thesis Title: A Lossless Compression Technique: Representing World Data into a Single Bit

Supervisor: Prof Dr Roshan Chitrakar

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Thesis Title: Explaining Invasive Ductal Carcinoma For Breast Cancer Using XAI And Deep Learning

Supervisor: Dr Pradip Paudyal

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Thesis Title: Search Engine Optimization based Web Page Classification using Machine Learning Methods

Supervisor: Prof Dr Roshan Chitrakar

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Thesis Title: Brain Tumor Classification using Hybrid Classical – Quantum Transfer Learning

Supervisor: Prof Dr Shashidhar Ram Joshi

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Thesis Title: Electric Load Forecasting for Short Term using Recurrent Neural Networks with Hyper Parameter Optimization

Supervisor: Dr Suresh Pokharel

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Thesis Title: Tooth Segmentation of Panoramic Dental Images using YOLOv8

Supervisor: Dr Sanjeeb Pd Panday

Name: Rachana Karna Roll:2019-1-39-0016

Thesis Title: Intrusion Detection using ML and DL Algorithms in SDN Environment

Supervisor: Er Kumar Pudashine

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Thesis Title: Breast Cancer Classification using Machine Learning and Explainable AI with LIME and SHAP

Supervisor: Er Mohan Bhandari

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Thesis Title: Performance Enhancement of Covid-19 Chest X-ray Image Classification using GAN and CNN

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Thesis Title: Comparative Analysis of Different YOLO model on Pothole Detection

Supervisor: Madan Kadariya

Name Suman Lamsal Roll: 2018-1-39-0055

Thesis Title: Contextual and Linguistic Challenges in Vector Space Model: Illustrative research of Nepali News

Supervisor: Dr Bal Krishna Bal

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Thesis Title: Network Intrusion Detection System using SVM in SSH and FTP Environment

Supervisor: Prof Dr Roshan Chitrakar

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Thesis Title: Factors Influencing Perception of IT Job Applicants Towards Employers Attraction in Kathmandu Valley

Supervisor: Er Madan Kadariya

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Thesis Title: Online Fake News Detection using Ensemble Learning Methods

Supervisor: Dr Arun Kumar Timalsina

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Thesis Title: Improved DDoS Detection by Combining Machine Learning Algorithms

Supervisor: Dr Roshan Chitrakar

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Thesis Title: Nepali News Classification using Bi-LSTM Model Combined with Global Vectors, CNN and Attention Mechanism

Supervisor: Dr Roshan Koju

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Thesis Title: Deep Learning Based Comparative Analysis on Solid Waste Classification

Supervisor: Er Madan Kadariya

Name: Nikesh Shrestha Roll: 2018-1-46-0012

Thesis Title: Determinants of Consumer Adoption Towards Mobile Wallet in Nepal

Supervisor: Dr Suresh Pokharel

Name: Sabin Thapa Roll: 2018-1-39-0046

Thesis Title: Pretrained Model Optimization for Brain Tumor Detection in MRI Images

Supervisor: Dr Suresh Pokharel

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Thesis Title: A Study on Customer Satisfaction Towards Ride-Sharing Services in Kathmandu Valley

Supervisor: Er Madan Kadariya

Name: Tufan Bhattarai Roll: 2018-1-46-0028

Thesis Title: Factors Influencing Online Impulse Buying Behaviour: An Empirical Analysis

Supervisor: Dr Roshan Koju

Name: Shaksham Regmi Roll: 2019-1-39-0082

Thesis Title: Utilizing Deep Features from Light Weight CNN to Classify Normal, COVID-19, Pneumonia and Tuberculosis in CXR Images

Supervisor: Er Niranjan Khakurel

Name: Dinesh Maharjan Roll: 2019-1-46-0007

Thesis Title: Offline Ranjana Lipi Handwritten Character Recognition using CNN Model

Supervisor: Dr Bal Krishna Bal

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Thesis Title: A Study of Bilingual Language Modeling for Cross-Lingual Transfer

Supervisor: Dr Bal Krishna Bal

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Thesis Title: Screening of Earthquake Damage Buildings Using Convolutional Neural Network Approach in Nepal

Supervisor: Dr Roshan Chitrakar

Name: Pragya Adhikari Roll: 2019-1-39-0042

Thesis Title: Similarity Based Approach to Minimize Cold Start Problem in Recommendation System

Supervisor: Dr Suresh Pokharel

Name: Hemanta Lamichhane Roll: 2020-1-39-0009

Thesis Title: Auto-Scaling In Amazon Web Service Using Serverless Architecture

Supervisor: Dr Basanta Joshi

Name: Asish Thapa Magar Roll: 2018-1-39-0002

Thesis Title: Adversarial Autoencoder Neural Networks for Credit Card Fraud Detection

Supervisor: Prof. Dr. Roshan Chitrakar

Name: Samjhana Chhetri Roll: 2019-1-39-0048

**Thesis Title:** Feature Optimization for Hybrid Decomposition Approach using Bat Algorithm for Epileptic Seizure Detection

Supervisor: Dr Suresh Pokharel

Name: Binaya Subedi Roll: 2020-1-39-0003

Thesis Title: Classification of Grievances in Hello Sarkar using Supervised Machine Learning

Supervisor: Dr Basanta Joshi

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Thesis Title: Fake News Detection using BERT with Auxiliary Information

Supervisor: Dr Roshan Chitrakar

Name: Narendra Bahadur Shahi Roll: 2019-1-23-0028

Thesis Title: Performance Analysis of Loan Classification for Commercial Bank in Neural Network

Supervisor: Er Madan Kadaria

Name: Sagar Kumar Saud Roll: 2018-1-46-0050

Thesis Title: Study of Online Payment Adoption for Mobile Recharge

Supervisor: Er Madan Kadariya

Name: Surya Prakash Upadhyaya Roll: 2018-1-39-0027

Thesis Title: Facial Expression Recognition with Attention Mechanism-based DenseNet

Supervisor: Prof. Dr. Roshan Chitrakar

Name: Ranjita Parajuli Roll: 2018-1-46-0048

Thesis Title: A Study on Assessment of Cloud Readiness of Banking, Financial Services and Insurance

Supervisor: Er Kumar Pudashine

Name: Pushpa Rai Roll: 2018-1-46-0017

Thesis Title: A Study on Customer Satisfaction Towards Online Shopping in Nepal

Supervisor: Er Madan Kadariya

Name: Arbinda Kumar Thakur Roll: 2018-1-39-0032

Thesis Title: Customer Churn Prediction using Deep Learning

Supervisor: Dr Roshan Koju

Name: Krishna Raj Dahal Roll: 2018-1-46-0009

Thesis Title: Acceleration of Digital Payment Adoption in the Context of Nepal

Supervisor: Dr Pradip Paudyal

Name: Pragya Dhital Roll: 2018-1-46-0042

Thesis Title: Comparative analysis on Facial Expression Recognition using Deep Learning

Supervisor: Er Niranjan Khakurel

Name: Shraddha K.C. Roll: 2019-1-39-0051

Thesis Title: Image Steganography using AES-RC4 Encryption and XOR-LSB Technique

Supervisor: Dr Roshan Chitrakar

Name: Anita Maharjan Roll: 2017-1-39-0032

Thesis Title: Name Matching using Bi-Directional GRU of DNN

Supervisor: Dr Roshan Chitrakar

Name: Ramesh Prasad Pant Roll No: 2017-1-39-0050

Thesis Title: Rice Quality Classification using NB, LR, and SVM Classifications

Supervisor: Dr Roshan Chitrakar

Name: Prabin Kumar Jha Roll: 2018-1-39-0020

**Thesis Title:** Classification of Fundus Image using Convolutional Neural Network with Quanization Aware Training

Supervisor: Er. Anil Verma

Name: Sudarshan Subedi Roll: 2019-1-23-0034

Thesis Title: Road Potholes Identification by using Convoution Neural Network and Recurrent Neural Network

Supervisor: Dr Suresh Pokharel

Name: Strella Amatya Roll: 2017-1-46-0053

Thesis Title: An Ensemble Based Method for Sales Prediction in Automobile Industry

Supervisor: Dr Suresh Pokharel

Name: Hitesh Jha Roll: 2017-1-39-0040

Thesis Title: Rice Leaf Disease Classification Using Deep Neural Network

Supervisor: Dr Roshan Chitrakar

Name: Sahaj Shakya Roll: 2019-1-39-0020

Thesis Title: SDN Controller Placement by Classifying Network Traffic Types using SVM and Path Optimization using DFS

Supervisor: Dr Roshan Chitrakar

Name: Agan Adhikari Roll: 2019-1-39-0031

Thesis Title: Diagnosis of Breast Lesion via CLAHE Enhanced Mammogram Images employing Ensemble of Transfer Learning

Supervisor: Dr Roshan Chitrakar

Name: Shristi Adhikari Roll: 2019-1-39-0052

Thesis Title: Prepaid Data Package Recommendation System for Telecommunications Service Industry

Supervisor: Dr Suresh Pokharel

Name: Shanker Pokhrel Roll: 2017-1-46-0051

Thesis Title: Impact Analysis for Adoption of Digital Banking Service in Commercial Banks of Nepal

Supervisor: Er Kumar Pudashine

Name: Shiva Thapa Roll: 182828

Thesis Title: Impact of online review in consumer restaurant selection behavior among Generation Y in Kathmandu valley

Supervisor: Er Madan Kadariya

Name: Samjhana Bhattarai Roll: 2019-1-39-0022

**Thesis Title:** Diabetes Prediction using Ensemble Method

Supervisor: Dr Suresh Pokharel

Name: Simanta Kasaju Roll: 2019-1-39-0084

Thesis Title: Querying Knowledge Graph in Natural Language for Medical Records

Supervisor: Dr Basanta Joshi

Name Ram Pathak Roll: 2018-1-23-0035

Thesis Title: Fashion Image Recommendation using DenseNet-121 Implementing Hybrid Transfer Learning Model for Image Classification

Supervisor: Dr Roshan Koju

Name: Hritik Jung Basnet Roll: 2019-1-39-0071

Thesis Title: Travel Route Planning Using Fog-Cloud Architecture and Optimum Path Calculation

Supervisor: Er Niranjan Khakurel

Name: Som Prasad Shrestha Roll: 2017-1-39-0054

Thesis Title: Sentiment Analysis of Twitter Data using Support Vector Machine in Parallel Execution Architecture

Supervisor: Dr Roshan Chitrakar

Name: Laxman Singh Khati Roll: 2011-1-53-0055

**Thesis Title:** Comparative Analysis ofHealth Care Employee Turnover Prediction using Gradient Boosting Algorithms

Supervisor: Er Madan Kadariya

Name: Bikram Shrestha Roll: 2018-01-46-0005

Thesis Title: Customer Segmentation using DBScan and Hierarchical Clustering Method: A Study on Consumer Perspective on Brand in Kathmandu Valley

Supervisor: Er Madan Kadariya

Name: Dol Raj Gurung Roll: 2017-1-46-0032

Thesis Title: Short Text Topic Modeling and Sentient Analysis

Supervisor: Dr Suresh Pokharel

Name: Bishnu Gyawali Roll: 2017-1-46-0031

**Thesis Title:** Comparative Study of Internet Rate Trends Affected by Implementation of the Base Rate of Everest Bank Limited and Nepal Investment Bank Limited

Supervisor: Er Kumar Pudashine

Name: Surya Thapa Roll No: 2017-1-23-0036

Thesis Title: Covid-19 Patient Screening from CT Images using HOG,SVD and CNN

Supervisor: Dr Roshan Chitrakar

Name: Biswaraj Baral Roll: 2018-1-39-0033

Thesis Title: The Multiclass Classification of Gastrointestinal Pathological Findings from Endoscopic Images

Supervisor: Dr Roshan Chitrakar

**Name:** Ashok Myasur Lama **Roll No:** 2017-1-23-0015

**Thesis Title:** Compression of ASCII Based Data using Coding Function

Supervisor: Prof Dr Purusottam Kharel

Name: Sunny Kapali Roll: 2017-1-23-0034

**Thesis Title:** Breast Cancer Diagnosis using Probabilistic xGBoost Ensemble Model

Supervisor: Dr Roshan Chitrakar

Name: Biplove K Sah Roll: 2018-1-39-0007

**Thesis Title:** Hybrid LSTM-CNN Model for Nepali News Categorization

Supervisor: Prof Dr Purusottam Kharel

Name: Sajal Amatya Roll: 2017-1-46-0042

Thesis Title: The Effectiveness of E-Learning Platform (Kullabs) in Nepal from Students’ Perspective

Supervisor: Dr Pradip Paudyal

Name: Rikesh Adhikary Roll: 2018-1-46-0019

**Thesis Title:** Mobile Gaming and Impact on Academic Performance of Higher Secondary Students: A Case Study on Kathmandu Valley

Supervisor: Er Madan Kadariya

Name: Nishu Kumari Singh Roll: 2017-1-23-0026

Thesis Title: An Analysis Of Nepali News Classification Using Distil Bidirectional Encoder Representations from Transformers (DBERT)

Supervisor: Er Niranjan Khakurel

Name: Manju Shrestha Roll: 2017-1-46-0035

**Thesis Title:** Road Accident Analysis and Prediction using Machine Learning

Supervisor: Dr Suresh Pokharel

Name: Abhisek Dhungel Roll: 2017-1-23-0001

Thesis Title: EEG Based Motor Imagery Classification using SVM and CNN

Supervisor: Dr Roshan Chitrakar

Name: Bijaya K.C Roll No: 2019-1-39-0065

Thesis Title: Endpoint Protection of Windows Operating System using Threat Intelligent Cycle

Supervisor: Dr Roshan Chitrakar

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| --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | Name: Taman Neupane Roll: 192980  Thesis Title: Life Insurance Risk Assessment with Missing Value Imputation using Deep Learning |   Supervisor: Dr Suresh Pokharel   |  | | --- | | Name: Saroj KC Roll No: 2017-1-46-0047 | | Thesis Title: Limiting Factors in Implementation of Software Defined Network System in Nepal |   Supervisor: Er Kumar Pudashine   |  | | --- | | Name: Sajan Aryal Roll No: 2017-1-46-0021 | | Thesis Title: A Study of Challenges in Nepal’s E-Payment System from Customer’s Perspective  Supervisor: Prof Dr Purusottam Kharel |  |  | | --- | | Name: Sashi Shekhar Gole Roll No: 2017-1-46-0051 | | Thesis Title: Performance Analysis of Data Mining Techniques in Diabetes Mellitus Prediction |   Supervisor: Er Niranjan Khakurel  Name: Nivaj Shakya Roll No: 2017-1-46-0013  Thesis Title: An Empirical Analysis on Consumer Behaviour on e-Commerce after COVID-19 inside Valley |

Supervisor: Er Niranjan Khakurel

Name: Saurav Bhattarai Roll: 2019-1-39-0050

Thesis Title: Routes Recommendation for Tourists with Salient Places of Interest

Supervisor: Dr Suresh Pokharel

|  |
| --- |
| Name Sugam Acharya Roll: 2017-1-39-0056  Thesis Title: Nepali Food Image Classification with Deep Neural Network  Supervisor: Dr Roshan Chitrakar  Name: Asmita Bashyal Roll No: 2017-1-46-0029 |
| Thesis Title: Automated News Categorization Based on Their Headlines and Short Description using Machine Learning Methods |

Supervisor: Dr Arun Timalsina

|  |
| --- |
| Name: Soyinka KC Roll: 2017-1-39-0055  **Thesis Title:** Credit Card Fraud Detection using Classification Algorithm  Supervisor: Dr Roshan Chitrakar  Name:Rojen Maharjan Roll No: 2017-1-23-0007  Thesis Title: Classification of Music Genre using CNN and LSTM |

Supervisor: Dr Roshan Chitrakar

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| --- | --- | --- |
| Name: Krishna Thapa Roll: 2019-1-46-0012  **Thesis Title:** Hospital Out-patient Visit Forecasting using Gated Recurrent Unit  Supervisor: Dr Arun Timalsina   |  | | --- | | Name: Manoj Karki Roll No: 2018-1-39-00012  Thesis Title: Cell Nuclei Segmentation based on U-Net Architecture |   Supervisor: Dr Basanta Joshi   |  | | --- | | Name: Sagar Khadka Roll: 172949  Thesis Title: Genetic Algorithm for Multi-Objective Optimization of Container-Based Micro-service Scheduling in Cloud |   Supervisor: Dr Roshan Chitrakar  Name: Rachana Dhakal Roll: 2017-1-46-0017  **Thesis Title:** Perception of Nepalese People Towards e-Government Services |

Supervisor: Dr Roshan Chitrakar

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| --- | --- |
| |  | | --- | | Name: Ashish Basnet Roll No: 2017-1-46-0028  Thesis Title: Performance Analysis of Data Mining Techniques in Coronary Artery Diseases |   Supervisor: Dr Roshan Chitrakar  Name: Achal Tamang Roll: 2017-1-46-0030  **Thesis Title:** The Impact of Social Media Marketing on Customer Brand Loyalty: Case Study |

Supervisor: Prof Dr Purusottam Kharel

Name: Umang Raj Pandey Roll: 2018-1-39-0058

Thesis Title: Stock Price Forecasting using Time Series Hybrid ARIMA Model

Supervisor: Dr Roshan Chitrakar

Name: Ishwor Prasad Chalise Roll: 2017-1-39-0009

**Thesis Title:** Detection ofWireless Sensor Network Anomalies by Hierarchical Clustering and C 5.0 Decision Tree

Supervisor: Prof Dr Shashidhar Ram Joshi

Name: Pradip Bhochhibhoya Roll: 2017-1-46-0015

**Thesis Title:** An Empirical Analysis of Determining Consumer Trust in C2C E-Commerce

Supervisor: Prof Dr Purusottam Kharel

Name: Surya Raj Ghimire Roll: 2017-1-46-0025

**Thesis Title:** Developing Domain Ontology for Herbal Medicine in Nepal

Supervisor: Dr Roshan Chitrakar

Name: Niraj Regmi Roll: 2017-1-46-0012

**Thesis Title:** Forecasting Atmospheric PM2.5 Concentration in Kathmandu City using Time Series Model

Supervisor: Dr Roshan Chitrakar

Name: Sanam Dhakal Roll: 2017-1-46-0022

**Thesis Title:** Analysis of Web Securities for Restful API over HTTp using Spring Boot Oauth2 Securities on Judicial Case System

Supervisor: Er Niranjan Khakurel

Name: Sapana Basukala Roll: 2017-1-46-0046

**Thesis Title:** Impact of Facebook on Consumer Purchase Decision in Bhaktapur

Supervisor: Dr Purusottam Kharel

Name: Pramesh Gautam Roll: 2018-1-23-0007

**Thesis Title:** Deep Learning based Magnetic Resonance Imaging and Ultrasonography Registration using Landmarks as Weak Labels

Supervisor: Dr Bishesh Khanal

Name: Jagat Man Mulguthi Roll: 2018-1-39-0009

**Thesis Title:** Remaining Engine Life Prediction using CNN-GRU Network with the Study of Different Window Sizes

Supervisor: Dr Roshan Chitrakar

Name: Niraj Singh Roll No: 182915

Thesis Title: Glaucoma Detection in Retinal Tomography using ViT

Supervisor: Dr Roshan Chitrakar

Name: Som Nath Adhikari Roll: 2018-1-46-0024

**Thesis Title:** The Impact of Social Media in academic performance of Nepali Students Inside Kathmandu Valley: A Case study on Secondary Level Students

Supervisor: Er Niranjan Khakurel

Name: Shrawan Thakur Roll: 2018-1-39-0026

**Thesis Title:** A Comparison and Enhancement of the Performance of Various Machine Learning Algorithms for Human Emotion Classification

Supervisor: Er Niranjan Khakurel

**Name:** Sumana Sharma Poudel Roll No: 2019-1-29-0057

**Thesis Title:** Similarity Based Concept for Improving Customer Churn Prediction in Telecom Industry

Supervisor: Er Suresh Pokharel

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**Thesis Title:** Embryonic Image Enhancement Based on Genetic Algorithm with Ant Colony Optimization

Supervisor: Dr Sanjeeb P Panday

Name: Ranjan Khakurel Roll: 2017-1-46-0041

Thesis Title: A Comparative Analysis on Customer Loyalty Prediction Using Data Mining Algorithms in Direct-To-Home Industry

Supervisor: Er Niranjan Khakurel

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**Thesis Title:** Strategy Framework Implementation of e-Governance in Irrigation Sector in Nepal

Supervisor: Prof Dr Purusottam Kharel

Name: Aruna Chhatkuli Roll: 17390035

**Thesis Title:** Deoxyribonucleic Acid (DNA) Computing to Enhance Advanced Encryption Standards (AES)

Supervisor: Dr Roshan Chitrakar

**Name:**  Atut Ghorkhali **Roll No:** 2018-1-46-0004

**Thesis Title:** Extension of Business Analysis Guideline - BABOK V3 for the Nepalese Context

Supervisor: Prof Dr Purusottam Kharel

Name: Amit Chaulagain Roll: 006-1-11-0020

**Thesis Title:** Image Classification using Capsule Network with Expectation Maximization Routing

Supervisor: Er Niranjan Khakurel

Name: Gopal Prasad Nyaupane Roll: 2017-1-46-0007

**Thesis Title:** A Comparative Analysis ofCustomer Churn Prediction in Direct To Home Industry Using Data Mining Algorithms

Supervisor: Er Niranjan Khakurel

Name: Sanjeeb Mahato Roll: 2016-1-46-0049

**Thesis Title:**  Information and Communication Technology (ICT) Acceptance in Open and Distance Learning Environment using the UTAUT Model

Supervisor: Dr Dirgha Raj Joshi

Name: Sachin Shrestha Roll: 2016-1-46-0047

**Thesis Title:** Transmission of IPv6 Jumbogram and its Performance Analysis

Supervisor: Er Kumar Pudashine

**Name:** Saujan Baniya **Roll No:** 2017-1-46-0049

**Thesis Title:** Comparison of Various Architecture for Native Android App Development

Supervisor: Prof Dr Shashidhar Ram Joshi

**Name:**  Prakash Khadka **Roll No:** 2016-1-39-0015

**Thesis Title:** Cloud computing failure events management in virtualization system

Supervisor: Prof Dr Purusottam Kharel

Name: Bishal Paneru Roll: 2016-1-46-0033

**Thesis Title:** Acceptance to Adopt Ride Hailing Applications using United Theory of Application and Use of Technology Model (UTATUT2)

Supervisor: Prof Dr Purusottam Kharel

Name: Yogesh Rajbanshi Roll: 2016-1-46-0053

**Thesis Title:** Acceptance of Information & Communication Technologies in Government Schools using UTATU Model: Case Jhapa District

Supervisor: Prof Dr Purusottam Kharel

Name: Ashesh Man Joshi Roll No: 2016-1-46-0032

Thesis Title: Student’s Academic Performance Prediction Using XGBoost: A Case Study With Reference To Nepal

Supervisor: Prof Dr Purusottam Kharel

**Name:** Nirdosh Adhikari **Roll No:** 2017-1-39-0012

**Thesis Title:** Enhancement in Data Security using AES Encryption and Multidirectional Pixel Value Differencing with LSB Steganography

Supervisor: Er Niranjan Khakurel

**Name:** Min Prasad Gharti **Roll No:** 2017-1-39-0043

**Thesis Title:** Performance Analysis of V2X Services in 5G Millimeter Wave Communication

Supervisor: Prof Dr Shashihar Ram Joshi

Name: Anuj Ghimire Roll: 2017-1-39-0003

**Thesis Title:** Improving Breast Cancer Classification using Linear Binary Pattern in Bit Plane Slicing and CNN

Supervisor: Dr Sanjeeb P Panday

Name: Bigyan Chapagain Roll: 2018-1-23-0022

**Thesis Title:** Devanagiri Compound Character Recognition using Convolutional Neural Network

Supervisor: Dr Roshan Chitrakar

Name: Niranjan Kumar Das Roll: 18460013

**Thesis Title:** Electronic Payment System In Nepal:  A Study of Users’ Acceptance.

Supervisor: Er Niranjan Khakurel

Name: Janardan Kuikel Roll: 2016-1-23-0004

**Thesis Title:** Identifying Money Laundering Transactions using Random Forest, Support Vector Machine and K-Nearest Neighbour

Supervisor: Kumar Pudashine

Name: Dipesh Shah Roll: 2016-1-46-0009

**Thesis Title:** Cyber Security Behaviour Analysis of Bank Employee

Supervisor: Kumar Pudashine

Name: Jenisha Bhattarai   Roll: 2017-1-46-0008

**Thesis Title:** Analysis of Postpartum Depression Among Urban Slum Women in Kathmandu, Nepal

Supervisor: Er Niranjan Khakurel

Name: Mukesh Shrestha Roll: 15460041

**Thesis Title:** Analysis of Network Security Management in Financial Institution of Nepal

Supervisor: Dr Suresh Pokharel

**Name:** Suraksha Shrestha **Roll No:** 15460055

**Thesis Title:** Consumer Perception towards Mobile Wallet in Nepal

Supervisor: Dr Sanjib P Panday

**Name:** Jitendra Babu Mahato **Roll No :** 16814

**Thesis Title:** An Efficient Spam Filtering Technique or Email Account

Supervisor: Sanjiv Udash

**Name:** Alka Anny Jha **Roll No:** 16932

**Thesis Title:** Smart Buildings Fire Detection System using Fuzzy Logic in Context of Nepal

Supervisor: Prof Dr Purusottam Kharel

Name: Indra Karki Roll: 16813

**Thesis Title:** Night Time Image Enhancement Based on Image Decomposition

Supervisor: Prof Dr Purusottam Kharel

Name: Naw Raj Joshi Roll: 182929

**Thesis Title:** Rainfall Prediction using K Means++ Clustering and GRU

Supervisor: Dr Roshan Chitrakar

Name: Ankit Bhattarai Roll: 172933

**Thesis Title:** Convolution Neutral Network Approaches for Devanagari Handwritten Recognition

Supervisor: Dr Sanjeeb Prasad Panday

Name: Urgen Norbu Sherpa Roll: 15460058

Thesis Title**:** Analysis of ZFS and XFS File System for Log Storage on Linux Server

Supervisor:Er Niranjan Khakurel

**Name:** Sushma Gautam **Roll No:** 16951

**Thesis Title:** Corn Infection Classification Using Transfer Learning

Supervisor: Er Niranjan Khakurel

Name: Ankit Bhattarai   Roll: 172933

**Thesis Title:** Convolutional Neural Network Approaches for Devanagari Handwritten Recognition

Supervisor:

**Name:** Jitendra Kumar Yadav **Roll No:** 172835

**Thesis Title:** Comparative Analysis of Regression Technique for predicting Air Quality Index (PM2.5) of Kathmandu.

Supervisor: Dr Arun Timalsina

Name: Raj Kumar Paneru Roll: 17390017

**Thesis Title:** Classification of Chest X-ray Image of Covid-19 using Auto-encoder based CNN

**Supervisor:** Dr Sanjeeb P Panday

Name: Satish Subedi Roll: 17250011

**Thesis Title:** Covid-19 Outbreak Prediction Using Optimized Prophet Model

Supervisor: Dr Sanjeeb Prasad Panday

Name: Nirajan Panthee Roll: 2017-1-23-0025

**Thesis Title:** Predict Congestion of the Road Network Based on Public Bus Speed

Supervisor: Er Niranjan Khakurel

Name: Rashmila Shrestha Roll: 2017-1-23-0029

**Thesis Title:** Public Bus Arrival Time Prediction based on Deep Learning Algorithm

Supervisor: Er Niranjan Khakurel

Name: Bimal Man Shrestha Roll: 2016-1-23-0002

Thesis Title: Intensify Cloud User Data Security using Data Centric Security Approach

Supervisor: Kumar Pudashine

Name: Sudarshan Guragain Roll: 16916 Thesis Title: A Detection of DDOS Attack Using Multi Model Ensemble Based Approach

Supervisor: Baburam Dawadi

Name: Suresh Basaula Roll: 16918

**Thesis Title:** A Model for Nepali Text Document Summarization using Sentence Extraction with Unsupervised Latent Semantic Analysis

Supervisor: Pramod Parajuli

**Name:** Mrijan Shrestha  **Roll No:** 16460041

**Thesis Title:** Problem and Prospect of Public Bicycle Sharing System in Context of Nepal

**Supervisor:** Prof Dr Purusottam Kharel

Name: Amit Chapagain Roll No:15531

Thesis Title: Intrusion Detection using MLP, Linear SVM, DT and NB Classification in SSH Environment

**Supervisor:** Dr Roshan Chitrakar

**Name:** Aarati Bastakoti **Roll No :**2015-1-46-0022

**Thesis Title:** Nepalese IT Risk Assessment Comparative to the US Healthcare’s EDI Protocols

**Supervisor:** Er Niranjan Khakurel

Name: Namraj Adhikari Roll: 15844

**Thesis Title:** Effectiveness of ICT implementation on local government office of Nepal: evidence from Dhading

**Supervisor:** Dr Purusottam Kharel

**Name:** Pramesh Phuyal **Roll No:** 15846

**Thesis Title:** Impact of Digital Library on the Education of Government School in Myagdi District

**Supervisor:** Dr Sanjeeb P Panday

**Name:** Sandesh Hamal **Roll No:** 16821

**Thesis Title:** Predicting Student Success in Higher Education using Machine Learning

**Supervisor:** Prof Dr Purusottam Kharel

Name: Sushil Shrestha Roll: 16829

**Thesis Title:** SMS Spam Detection using Ensemble Learning Technique

**Supervisor:** Er Niranjan Khakurel

Name: Rashik Tuladhar Roll No: 2016-1-23-0007

Thesis Title: A Comparative Analysis on Different Classifiers on Fraud Detection Over Motor Insurance Policy Claim

**Supervisor:** Er Niranjan Khakurel

**Name:** Saurab Adhikari **Roll No:** 17460053

**Thesis Title:**  Twitter Sentiment Analysis using Machine Learning

**Supervisor:** Er Niranjan Khakurel

Name: Ramesh Chalise Roll: 17460018

**Thesis Title:** Factors and Impact Study on Cart Abandonment of Nepalese E-Commerce

**Supervisor:** Er Niranjan Khakurel

**Name:** Jamir Maharjan **Roll No:** 16522

**Thesis Title:** Medicare Fraud Detection using Deep Learning with Hyper-parameter Tuning

**Supervisor:** Dr Roshan Chitrakar

**Name:** Tank Prasad Ojha **Roll No:** 16460052

**Thesis Title:** Online Payment Acceptance in Academia: Online Fee Payment

**Supervisor:** Prof Dr Purusottam Kharel

**Name:** Prakash Kafle       **Roll No:** 2017-1-23-0027

**Thesis Title:**  Improving Nepali News Classification using Bidirectional Encoders Representation from Transformers

**Supervisor:** Dr Roshan Chitrakar

**Name:** Narayan Gharti Chhetri **Roll No:** 16390045

**Thesis Title:**  Image Classification Method Based on CNN with Adam Optimizer and Dimension Reduction

**Supervisor:** Prof Dr Shashidhar Ram Joshi

Name: Samip Ghimire Roll: 182966

Thesis Title: Estimating lung volume capacity from X-ray images using Deep Learning

**Supervisor:** Dr Bishesh Khanal

Name: Kshitij Bajracharya Roll: 16908

**Thesis Title:** Multiple Choice Question Generation by Cloze Translation

**Supervisor:** Dr Roshan Chitrakar

Name: Rajiv Bikram Shah Roll No: 18460018

Thesis Title: Impact Of Online Education In Student’s Learning In Nepal

**Supervisor:** Prof Dr Purusottam Kharel

**Name:** Sunita Kumari Bohara **Roll No:** 15951

**Thesis Title:** Implementation of Analytic Hierarchy Process in Priority Based Cloud Scheduling with Artificial Neural Network

**Supervisor:** Prof Dr Purusottam Kharel

**Name:** Subhash Shah **Roll No:** 15949

**Thesis Title:** Detection of Online Reviews Sentiment using Bi-LSTM and GloVe

**Supervisor:** Kumar Pudashine

**Name: Bishal Gaurav Jha**  **Roll No:** 15956

**Thesis Title:** Star Algorithm of Multiple Sequence Alignment Applying Local Alignment Technique by Using Map Reduce Technique

**Supervisor:** Dr Basanta Joshi

Name: Ajay Maharjan Roll: 172901

**Thesis Title:** Anomaly Detection of BGP, Route Base on Fisher-Markov Selector and LSTM Deep Learning

**Supervisor:** Prof Dr Shashidhar Ram Joshi

Name: Ramesh Adhikari Roll: 182980

**Thesis Title:** Performance Enhancement of Convolutional Neural Network with Hybrid and Cascade Method using GAN

**Supervisor:** Prof Dr Shashidhar Ram Joshi

**Name:**  Ramesh Baral **Roll:** 16944

**Thesis Title:** Fake Nepali Paper Currency Detection using CNN Algorithm

**Supervisor:** Prof Dr Shashidhar Ram Joshi

**Name: Suman Chandra Bhandari Roll No: 172555**

**Thesis Title:** Case Disposal Time Prediction On Multilingual Nepali-English Dataset Using Classifier

**Supervisor:** Dr Roshan Chitrakar

**Name:** Sunita Maharjan **Roll No:** 16950

**Thesis Title:** Deep Learning Approach on Sarcasm Detection Using Bidirectional Model of Recurrent Neural Network

**Supervisor:** Prof Dr Shashidhar Ram Joshi

**Name:** Jayshree Maharjan **Roll No:** 16524

**Thesis Title:** Foreign Exchange Rates Forecasting using Phase Space Reconstruction and Extreme Learning Machines

**Supervisor:** Prof Dr Shashidhar Ram Joshi

**Name:** Sapana Thakulla **Roll:** 172950

**Thesis Title:** Load Balancing Method in Cloud Computing using Nature Inspired BAT Algorithm for Task Scheduling

**Supervisor:** Prof Dr Shashidhar Ram Joshi

Name: Lal Kumar Thanet Roll: 16841

**Thesis Title:** An Analysis of Consumer Attitude about Point of Sale Services in Supermarket

Supervisor: Er. Niranjan Khakurel

Name: Atul Pradhan Roll: 16935

**Thesis Title:** AScalable News Classification using Naïve Bayes and BERT

**Supervisor:** Dr Basanta Joshi

Name: Ramesh Baral Roll: 16944

**Thesis Title:** Fake Nepali Paper Currency Detection using CNN Algorithm

Name: Subash Panday Roll: 17390023

**Thesis Title:** Image Steganography Approach Based on Ant Colony Optimization with Triangular Chaotic Map

**Name:** Mohan Bhandari     **Roll No:** 1739011

**Thesis Title:**  Performance Analysis of ADAM Optimization on Introducing Energy Index

**Name:** Nub Raj Regmi **Roll No:** 17390015

**Thesis Title:** Qos Aware Routing With Signal Strength Based Link Prediction Model In Manet

**Supervisor:** Mr Kumar Pudashine

**Name:** Sukhachandra Thakur **Roll No:** 16390048

**Thesis Title:** Deep Learning Models for Security of IoT Network

**Supervisor:** Prof Dr Shashihar Ram Joshi

Name: Gaurab Lamichhane Roll: 2016-1-39-0030

**Thesis Title:** Automated Glaucoma detection with deep learning using rectified Adam optimizer

**Supervisor:** Dr Sanjeeb P Panday

Name: Pralhad Chapagain Roll: 172509

**Thesis Title:** Intrusion Detection based on PCA with Improved K-means

**Supervisor:** Dr Arun Timalsina

Name: Reeta Khadka Roll: 16945

**Thesis Title:** Headline Generation From Nepali News Document Using LSTM Neural Network

**Supervisor:** Dr Arun Timalsina

**Name:** Narendra Chaudhary **Roll No:** 16921

**Thesis Title:** An Enhancement on Selectivity Estimation Using Kernel Density Model

**Supervisor:** Dr Pradip Paudyal

Name: Surendra Adhikari Roll: 172923

**Thesis Title:** Comparative Agents’ Segmentation of Online Payment Application using Multiple Clustering Algorithms

**Supervisor:** Dr Arun Timalsina

Name: Ashok Sharma Roll: 16952

**Thesis Title:** Fake News Detection : A Multi Class Text Classification Approach

**Supervisor:** Prof Dr Shashidhar Ram Joshi

Name: Sujit Kumar Gupta Roll: 16827

**Thesis Title:** Strategic framework for the implementation of electronic education environment (EEE) in Nawalparasi District

**Supervisor:** Prof Dr Purusottam Kharel

Name: Aashish Kumar Sharma Roll: 16920

**Thesis Title:** Performance Analysis of Convolutional Neural Network Applying Quantum Annealing

**Supervisor:** Dr Sanjib P Panday

Name: Pralhad Adhikari Roll: 2016-1-39-0016

**Thesis Title:** Nepali News Classification Using LSTM-CNN Hybrid Model

**Supervisor:** Dr Arun Timalsina

Name: Aakarshan Maharjan Roll: 16521

**Thesis Title:** Deep Learning Approach on Intrusion Detection System Using Bidirectional Model of Recurrent Neural Network

**Supervisor:** Dr.Roshan Chitrakar

Name: Apurwa Singh Roll: 1725232

**Thesis Title:** Healthcare Vulnerability Mapping using K-Means++ Algorithm and Entropy Method

**Supervisor:** Dr.Roshan Koju

Name: Abhilash Poudel Roll: 2016-1-39-0002

**Thesis Title:** Secret Image Sharing based on Shamir’s Scheme with SVD as Shadow Words for Color Image

**Supervisor:** Dr.Roshan Chitrakar

**Name:** Gopal Dahal   **Roll No:**16907

**Thesis Title:** Passive System for Source Printer Classification Involving Cross-Font Document

**Supervisor:** Prof Dr Shashidhar Ram Joshi

**Name:** Dipak Kumar Shrestha   **Roll No:** 16808

**Thesis Title:** A Comparative Study of SVM, ANN, GA-SVM,PSO-SVM,GA-ANN and PSO-ANN for Bankruptcy Prediction

**Supervisor:** Prof Dr Purushottam Kharel

Name: Phul Babu Jha Roll: 182504

**Thesis Title:** An Enhanced Knuth Morris Pratt Algorithm for String Search using Hash Function

**Supervisor:** Prof Dr Purushottam Kharel

**Name of Research Candidate:** Sarita Neupane **Roll No :**

**Thesis Title:** Correlation Based feature Selection for Decision Tree Learning

**Supervisor:** Dr Roshan Chitrakar

**Name of Research Candidate:** Uday Kumar Yadav **Roll No : 15952**

**Thesis Title:** Drug Target Interaction Prediction Using Deep Belief Network with Parallel Processing

**Supervisor:** Dr Basanta Joshi

**Name of Research Candidate:** Subash Bista **Roll No :** 16528

**Thesis Title:** Long Short Term Memory With Layerwise Relevance Propagation for Sentiment Analysis

**Supervisor:** Dr Bal Krishna Bal

**Name of Research Candidate:** Anju Shah  **Roll No :** 15935

**Thesis Title:** Facial Expression Recognition using Inception Layer in Deep Neural Network

**Supervisor:** Dr Sanjib Panday

Emperical

**Name of Research Candidate:** Sachin Sapkota **Roll No : 11460011**

**Thesis Title:** Analysis of Readiness of Young IT Graduates in Kathmandu Valley to Make Online Payments

**Supervisor:** Niranjan Khakurel

Image

**Name of Research Candidate:** Birendra Yadav  **Roll No :** 15906

**Thesis Title:** Minutiae Extraction of Fingerprint using Improved Median Filter

**Supervisor:** Dr Sanjib Panday

**Name of Research Candidate: Kumar Lamichhane**  **Roll No :** 15939

**Thesis Title:** Handwritten Devanagari Character Recognition using Capsule Network

**Supervisor:** Dr Sanjib P Panday

**Name of Research Candidate: Santosh Giri**  **Roll No :** 16957

**Thesis Title:** Image Classification Based on Convolution Neural Network using Transfer Learning

**Supervisor:** Dr Basanta Joshi

Network

**Name of Research Candidate: Rabindra Shrestha**  **Roll No :** 15390044

**Thesis Title:** Intrusion Detection System using Heuristics Clustering Vector Machine Classification

**Supervisor:** Dr Roshan Chitrakar

**Name of Research Candidate: Manoj Gautam**  **Roll No :** 14930

**Thesis Title:** Application Aware Route Optimization in Software Defined Network using Bandwidth and Latency

**Supervisor:** Kumar Pudashine

**Name of Research Candidate:** Anish Bhattarai **Roll No :15934**

**Thesis Title:** Steganography for Secure Message Transmission using Modified Hash LSB Technique and Twofish Cryptographic Algorithm.

**Supervisor:** Dr Sanjib Panday

Data mining

**Name of Research Candidate:** Niroj Dyola **Roll No :14913**

**Thesis Title:** Comparative Study of Customer Behaviour in Online Shop of Nepal using Different Data Mining Approaches

**Supervisor:** Prof Dr Shashidhar Ram Joshi

**Name of Research Candidate:** Ashok Chand **Roll No : 14531**

**Thesis Title:** Automated Database Normalization Up to Third Normal Form using Data Dictionary

**Supervisor:** Dr Roshan Chitrakar

**Name of Research Candidate:** Purushotam Shrestha **Roll No :** 14917

**Thesis Title:** Multi Agent Based Heterogeneous Power Management System

**Supervisor:** Dr Basanta Joshi

**Name of Research Candidate:** Bikash Bhattarai **Roll No:** 14902

**Thesis Title:** Recommendation System Using Collaborative Filtering Algorithm for the Movie Recommendations

**Supervisor:** Dr Purushottam Kharel

**Name of Research Candidate:** Sajag Ratna Shakya **Roll No :** 14919

**Thesis Title:** Insult Detection in Social Commentary using Ensemble Learning with Lexicon Based Sentiment Analysis

**Supervisor:** Dr Basanta Joshi

**Name of Research Candidate:** Vesh Raj Joshi **Roll No:**  14460009

**Thesis Title:** Nepali OCR on Printed Document Using SVM

**Supervisor:** Dr Sanjib Panday

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| 0 of 0 |

**Name of Research Candidate: Niraj Pradhan**  **Roll No : 15808**

**Thesis Title:** Initial Public Offering Allotment Prediction using Naïve Bayes Classification by Clustering the Attributes Using K-Means Algorithm

**Supervisor:** Dr Sanjib Panday

**Name of Research Candidate:** Shyam Bhakta Shrestha **Roll No:** 14925

**Thesis Title:** Fake Currency Detection using Image Processing Method

**Supervisor:** Niranjan Khakurel

**Name of Research Candidate:** Sulav Nepal **Roll No:** 15460054

**Thesis Title:** Development and Evaluation of Mobile Touch Based User Interface Prototype for Elderly Users

**Supervisor:** Sanjay Kushwaha

Name: Resha Deo Roll: 14460019

**Thesis Title:** Critical Success Factors for Small and Medium Size Enterprises

**Supervisor:** Dr Roshan Chitrakar

**Name of Research Candidate:** Sushil Paudel **Roll No:** 14956

**Thesis Title:** Data Migration from Relational Database (MySQL) to NoSQL Database (MongoDB) using Thumbs rule of MongoDB

**Supervisor:** Dr Basanta Joshi

Name: Tejendra Shrestha Roll: 14460031

**Thesis Title:** Cascaded Fuzzy Logic Inference for Employee Performance Evaluation

**Supervisor:** Anil Verma

Name: Dipesh Maskey Roll: 15839

**Thesis Title:** Analysis on the Implementation and Operation of EMV Chip Card in Nepal

**Supervisor:** Kumar Pudashine

Name: Rishi Kanta Marseni Roll: 172507

**Thesis Title:** A Novel Approach in Image Cryptography Based on Chaos Theory and Elliptic Curve

**Supervisor:** Dr Roshan Chitrakar

Name: Bhawana Kumari Bam Roll: 14390034

**Thesis Title:** Performance Analysis of Integrate Particle Swarm Optimization Algorithm For Task Scheduling in Cloud Computing

**Supervisor:** Prof Dr Purushottam Kharel

Name: Kabir Kumar Sinkemana Roll: 14939

**Thesis Title:** SQL Optimization in Oracle by Using Hybrid Genetic Algorithm and Ant Colony Algorithm

**Supervisor:** Prof Dr Shashidar Ram Joshi

**Name of Research Candidate:** Sunil Bahadur Bist **Roll No :** 14460030

**Thesis Title:** Access to ICT and Its Effectiveness on Learning Activities of Undergraduate Students

**Supervisor:** Niranjan Khakurel

Name: Anup Karmacharya Roll: 16902

**Thesis Title:** Cache Admission Policy to Increase Cache Hit Ratio

**Supervisor:** Niranjan Khakurel

Name: Pramila Koirala Roll: 16819

**Thesis Title:** SMS Classification with Relevance Vector Machine

**Supervisor:** Dr Arun Timilsina

Name: Bijay Tamrakar Roll: **16804**

**Thesis Title:** An E-Governance Integrated Framework for Developing Country: Nepal

**Supervisor:** Prof Dr Purushottam Kharel

Name: Roshan Shrestha Roll: 16915

**Thesis Title:** Face Recognition using HMAX Feature Extraction and Convolutional Neural Network Classifier

**Supervisor:** Dr Sanjeeb Panday

Name: Sachit Karki Roll: 14541

**Thesis Title:** Opinion Mining of Customer Reviews for Online Products through Sentiment Analysis

**Supervisor:** Dr Arun Timalsina

Name: Pranish Dahal Roll: 15847

**Thesis Title:** Question Labeling using Convolutional Neural Network and LSTM

**Supervisor:** Dr Basanta Joshi

Name: Sujan Adhikari Roll: 15920

**Thesis Title:** Image Enhancement using Successive Mean Quantization Transform and Homomorphic Filtering

**Supervisor:** Dr Sanjeeb Panday

Name: Angel Maharjan Roll: 14931

**Thesis Title:** Improved Schema Selection While Migrating from RDBMS to Document Store NoSQL

**Supervisor:** Anil Verma

Name: Anjana Prajapati Roll: 14933

**Thesis Title:** Enhancing Spam Detection on Nepali Language SMS

**Supervisor:** Dr Arun Timalsina

Name: Pradip Raj Poudel Roll: 14944

**Thesis Title:** Face Biometrics Attack Detection using Discriminative Image Patches Discovery

**Supervisor:** Dr Sanjeeb Prasad Panday

Name: Vipul Gautam Roll: 14958

**Thesis Title:** IP Address Spoofing Attack Detection in IPv6 Link Local Communication During Duplicate Address Detection Process

**Supervisor:** Mr Sharad Kumar Ghimire

Name: Srilata Bhagat Roll: 16825

**Thesis Title:** Efficient Predictive Analysis of Health Insurance Claim Using Machine Learning Techniques

**Supervisor:** Dr Roshan Chitrakar

Name: Manoj Kumar Sah Roll: 14537

**Thesis Title:** Strategic Framework for Implementation of Heat Wave Early Warning System

**Supervisor:** Dr Roshan Chitrakar

Name: Sanjay Kumar Rauniyar Roll: 14954

**Thesis Title:** Comparative Study and Performance Analysis of Dimensionality Reduction Based Techniques For Hand Written Digits

**Supervisor:** Dr Arun Timalsina

Name: Kashiram Pokharel Roll: 14940

**Thesis Title:** An Analysis of Leukemia using Fuzzy C-means and Gradient Edge Detectors Based on Machine Learning

**Supervisor:** Dr Sanjeeb Prasad Panday

Name: Samir Karmacharya Roll: 14952

**Thesis Title:** Enhanced Data Hiding Technique Using Double Key AES and DWT

**Supervisor:** Dr Roshan Chitrakar

Name: Rabi Shakya Roll: 14947

**Thesis Title:** Enhancing And Evaluating Web Application Security with Deception layer

**Supervisor:** Dr Roshan Chitrakar

Name:   Sinuna Chaudhary                                                                                                            Roll: 172826

**Thesis Title:** Information Retrieval from Job Posts Based on K-means++ Clustering Algorithm

Supervisor: Prof Dr Shashidhar Ram Joshi

Name: Manish Shrestha Roll: 14536

**Thesis Title:** Part of Speech Tagging for Nepali Language using Machine Learning Techniques

Supervisor: Prof Dr Shashidhar Ram Joshi

Name: Sanam Dongol Roll: 14953

**Thesis Title:** Task Scheduling Based on Improved Genetic Algorithm in Cloud Computing

Supervisor: Prof Dr Shashidhar Ram Joshi

Name: Rabindra Tandukar Roll: 14539

**Thesis Title:** Distribted Query Optimization By Index Tuning

Supervisor: Anil Verma

Name: Rabin Nankhwa Roll: 14948

Thesis Title: Stock Market Prediction with Recurrent Neural Network

Supervisor: Dr Basanta Joshi

Name: Sarada Pokharel Roll: 15948

**Thesis Title:** Recognition of Grape Leaf Disease Using Convolution Neural Network

Supervisor: Dr Sanjeeb Prasad Panday

Name: Srijana Baniya Roll: 14955

**Thesis Title:** Detection and Analysis of DDOS Attack in Application Layer

Supervisor: Dr Roshan Chitrakar

Name: Archana Rajbhandari Roll: 16903

**Thesis Title:** Passive Copy-Move Image Forgery Detection using Wavelet Transform

Supervisor: Dr Sanjeeb Panday

Name: Prabin Shrestha Roll: 14943

**Thesis Title:** Dynamic Scheduling for Workflows in Cloud Computing

Supervisor: Prof Dr Shadhiahr Ram Joshi

Name: Prashant Dhewaju Roll: 14945

**Thesis Title:** Gender Detection using Viola Jones Algorithm and Machine Learning

Supervisor: Dr Sanjeeb Panday

**Name:** Prabin Shrestha **Roll No :** 15927

**Thesis Title:** Comparative Analysis of Halt Winters , ARIMA and Hybrid (Proposed) Methods for Forcasting Number of Patients Admitting in a Hospital

Supervisor: Mr Kumar Pudashine

**Name:** Nabin Adhikari **Roll No :** 15912

**Thesis Title:** Image Steganography with XOR-LSB Substitution using Horse Step Algorithm

Supervisor: Dr Roshan Chitrakar

**Name:** Suraj Kadayat **Roll No:** 16855

**Thesis Title:** Student Acceptances of Mobile Learning Systems in Higher Educations Using Unified Theory of Acceptance and Use of Technology (UTAUT) Model

**Supervisor:** Prof Dr Purushottam Kharel

**Name:** Krishna Khadka **Roll No:** 15908

**Thesis Title:** Generation of Nepalese Handwritten Characters using Generative Adversarial Network

**Supervisor:** Dr Sanjeev Prasad Panday

**Name:** Kabita Rai **Roll No:** 16907

**Thesis Title:** Weather Prediction using K-means Clustering with Bagging Back Propagation Neural Network

**Supervisor:** Dr Roshan Chitrakar

Name: Shiva Kumar Shrestha Roll: 15957

**Thesis Title:** Photographic Text-To-Image Synthesis via Multi-turn Dialogue using Attentional GAN

**Supervisor:** Prof Dr Shadhidhar Ram Joshi

Name: Abhishesh Dahal Roll: 172931

**Thesis Title:** A Dynamic Scheme for Vertical Fragmentation, Allocation and Replication of a Distributed Database

**Supervisor:** Prof Dr Shadhidhar Ram Joshi

**Name:** Ujjwal Koirala **Roll No: 15953**

**Thesis Title:** Analysis of Soil Properties and Climatic Data to Predict Crop Yields using LSTM Recurrent Neural Network

**Supervisor:** Prof Dr Shadhidhar Ram Joshi

**Name:** Kul Prasad Poudel  **Roll No:** 1546009

**Thesis Title:** Technology Acceptance Model for the Use of Mobile Based Survey Apps in Water Sanitation and Hygiene Sector

**Supervisor:** Dr Sanjeeb Prasad Panday

**Name:** Riwaz Bhandari  **Roll No:** 15460015

**Thesis Title:** Trust and Security Risks of Mobile Banking on Customer Satisfaction

**Supervisor:** Dr Sanjeeb Prasad Panday

**Name:** Sagar Manandhar  **Roll No:** 15528

**Thesis Title:** A Measurement Study of MPLS-TE Routing Performance During DDOS Attack

**Supervisor:** Kumar Pudashine

Name: Bijay Neupane Roll: 172937

**Thesis Title:** Dynamic Load Balancing with Multipath Routing in SDN

**Supervisor:** Kumar Pudashine

**Name:** Manoj Giri **Roll No :** 172540

**Thesis Title:** An Encryption Algorithm using Graph Theory using XOR Operator

**Supervisor:** Dr Roshan Chitrakar

Name: Loka Raj Ghimire Roll: 15909

**Thesis Title:** Integration of Expectation Maximization (EM) Clustering using Gaussian Mixture Models (GMM) and Naive Bayes Classifier for Intrusion Detection

**Supervisor:** Dr Roshan Chitrakar

**Name:** Pramit Shrestha **Roll No :** 15460014

**Thesis Title:** An Analysis on Usage of Information Technology and Their Outcomes in NGOs of Dolakha District

**Supervisor:** Er Niranjan Khakurel

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**Thesis Title:** An Empirical Analysis of Factors that Affect Online Consumer Behavior in Nepal

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**Thesis Title:** Openflow Based Dynamic Traffic Distribution Among Servers in Software Defined Networks

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**Thesis Title:** LSTM Approach to Sarcasm Detection in News Headline using Word Embeddings

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**Thesis Title:** Word Sense Disambiguation Based Feature Level Sentiment Analysis Considering Negation

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**Thesis Title:** Predicting Word using N-Gram Language Model for Nepali Language

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**Supervisor:** Er Shaligram Parajuli

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**Thesis Title:** Predicting Loan Defaulters Using Data Mining Techniques

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**Thesis Title:** Credit Risk Analysis using Artificial Neural Network and Support Vector Machine

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**Thesis Title:** Classification of Human Facial Expression using Deep Neural Network

**Supervisor:** Prof Dr Shashidhar Ram Joshi

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**Supervisor:** Kumar Pudashine

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**Supervisor:** Dr Roshan Chitrakar

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**Thesis Title:** Sentiment Analysis of Internet Meme using Deep Learning Approaches

**Supervisor:** Prof Dr Shashidhar Ram Joshi

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**Thesis Title:** Detection and Classification of MRI-Based Brain Tumor via Jaya Algorithm, and Twin Support Vector Machine

**Supervisor:** Prof Dr Shashidhar Ram Joshi

**Name:** Yaman Maharjan **Roll No:** 182511

**Thesis Title:** Online advertisement relevance prediction with LR model and its explanation using LIME and SHAP for human interpretability

**Supervisor:** Prof Dr Shashidhar Ram Joshi

**Name: Sushish Baral**  **Roll No:** 182926

**Thesis Title:** Super-resolution Using Capsule Network as a Discriminator in GAN Architecture

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**Thesis Title:** Prediction of Heart Disease using Artificial Neural Network

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