

PERSONAL INFORMATION

Adarsh Ghimire



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WORK EXPERIENCE

01/11/2019–Present

Analytics Specialist

Rosebay Consulting, Kathmandu (Nepal)

- Research in Bayesian Learning methods in retail and finance
- Research and Development of NLP techniques for Indonesian Language
- Research and Development of Fraud Detection System
- Research and Development of multi-vehicle route optimization system
- Technical Solutioning of Analytics Projects
- Give training on data acquisition, cleansing, mining, analytics, version control system, word embedding, big data system
- Development and training of sentiment analysis model

01/04/2019–01/11/2019

AI Business Analyst (Analytics) & Machine Learning Engineer

Rosebay Consulting, Kathmandu (Nepal)

- Team lead for several Machine Learning and AI projects
- Work onsite at Indonesia on Machine learning, and Big data system.
- Big data system Implementation and Integration.
- Research and Development of NLP model of Indonesian Addresses for Address Verification System
- Development of Credit default prediction system of one of Taiwan Bank

09/2018–10/2018

Software Engineering Intern

Leapfrog technology Inc., Kathmandu (Nepal)

- Directly placed after the Undergraduate studies
- Acquired training on Git, HTML, CSS, and JavaScript
- Worked in several Web Development Project

09/01/2018–25/01/2018

Network Operation Centre Intern

Nepal Telecom, Kathmandu (Nepal)

- General setup and operation of Fiber Home System
- Acquired training on Optical Fiber and Microwave Communication System
- Studied about routers, switches and Base Transceiver Station of Nepal Telecom

10/2017–01/2018

Volunteer

Rupantaran Nepal, Non-Profit Organization, Kathmandu (Nepal)

- Create awareness programs in rural communities on climate change

- Raise adaptation awareness program in rural areas on Nepal
- General office administration and record-keeping at Central office

2014–2018 Active Member

Electronics Project Club (Kathmandu Engineering College)

- An active member of the software and hardware development team.
- Participating in National, and International Robotics Competition.
- Mentoring the juniors in projects.

EDUCATION AND TRAINING

2014–2018 Bachelor in Electronics and Communication Engineering

Distinction

Kathmandu Engineering College, Tribhuvan University, Kathmandu (Nepal)

- **University topper** in Engineering
- Aggregate percentage : 87.5%
- Bachelor Final Year Project Title : "Smart Gloves"
 - Intended to help deaf and dumb people. It was an intelligent machine learning based system that could read the gestures made by deaf and dumb people through the sensors and convert it to sound in real time.
- Focused on Machine Learning model development and hardware integration
- Elective subjects: "Aeronautical Telecommunication" "Remote Sensing" and "Big data"

2012–2014 Higher Secondary Education

Distinction

United Academy Higher Secondary School, Lalitpur (Nepal)

- Higher Secondary Education Board of Nepal
- Major : Science, Mathematics and Computer Science

1999–2012 Lower Secondary Education

Distinction

Jyoti English Boarding School, Dhangadhi (Nepal)

- Course of Nepal Government
- School Leaving Exam Percentage achieved : 90.5%
- **Topper** of Far-Western Development Region of Nepal

PERSONAL SKILLS

Mother tongue(s) Nepali

Foreign language(s)

English

IELTS (Band 7)

Digital skills

- **Programming Language** - Python, MATLAB, C, C++, JavaScript(ES5 and ES6), Shell Scripting
- **Data analytics and visualization** - Tableau, Pandas, Seaborn, Matplotlib, Numpy, Spark
- **Machine Learning** - Neural Networks, Deep Learning, Convolutional Neural Networks, Bayesian Machine Learning, Reinforcement Learning
- **ML Libraries** - Sci-kit Learn, Tensorflow, pytorch, spacy, opencv, Mlib, Mahout, NLTK
- **Web development** - Rest API and services, Django, Flask, HTML, CSS, JavaScript
- **Big data System** -

- Hortonworks Data Platform
- Cloudera
- Kafka, Sqoop, Spark, Pig, Hive
- **Databases** - MongoDB, Elasticsearch, MySQL, SQLite
- **IoT, Robotics and Embedded Systems**

ADDITIONAL INFORMATION

Publications

- Adarsh Ghimire, Rohit K. Upadhyay, "Hadoop Big Data Technologies" in book "Big Data Analytics Ecosystem and Solution Dengan Apache Hadoop" in 2019 Indonesia Fintech show.
- "Smart Gloves" at Office of Kathmandu Engineering College Research and Publications (OKRP) conference 2018.

Honours and awards

- **University Topper** for scoring the highest percentage (87.5%) among all the students of Engineering of Tribhuvan University batch 2014-2018.
- Outstanding paper presentation at Office of KEC Research and Publications (OKRP).
- Scholarship awarded by Kathmandu Engineering College in all semesters of undergraduate for being all semester topper.
- Appreciated for being College Topper in all semesters by Kathmandu Engineering College.
- Winner of "Idea Hunt" in IT MEET 2018 organized by Kathmandu University Computer Club (KUCC).
- Second Runner up in "Manual Akhada" International Robotics Competition by Robotics Association of Nepal, in 2016.
- Second Runner up in "ROBODRIFT 4.0" by Robotics Club of Kathmandu Engineering College, 2016.
- Selected by Nepal Government for "Training in Telecommunication" in Japan as a part of "JENESYS 2016" first batch.
- Scholarship awarded to complete 11, 12 by United Academy Higher Secondary School for securing the highest percentage in School Leaving Certificate (SLC) Exam from Far-Western Development Region.
- Appreciated by Nepal Teacher's Union for scoring first position in the SLC exam.
- Appreciated by Aishwarya Multiple Campus, Dhangadhi, Kailali, Nepal for scoring the highest percentage from Far-Western Development Region on the SLC exam.
- Honored by School for scoring 100 out of 100 in Mathematics in the SLC exam.
- Full scholarship awarded by school for securing first position in every examination from class 1 to class 10.

Projects

Remittance forecast and prediction

- Developed Time series forecasting system based on Long Short-Term Memory model.

Fraud Detection System

- Developed REST api of machine learning model(random forest, and anomaly detection) for fraud detection in online transactions

Vehicle Route Optimization System

- An adaptive heuristic neighborhood search algorithm applied for multiple vehicle route optimization
- Developed fully functioning web application (Django Rest)

NLP Model of Indonesian Addresses

- Developed REST API of spacy NLP model made with Indonesian Address for industry grade web application.

Credit default predictor

- Developed a web application (Flask) based on machine learning algorithms that can predict the credit default of one of Taiwan Bank.

Tweets Sentiment Predictor

- Developed a machine learning model based on NLP and Multinomial Naive Bayes Classifier that can find the sentiment behind the twitter tweets.

Smart Gloves

- Developed an automatic sign language recognition system using sensors (flex, gyroscope, accelerometer) and random forest classification model

Wireless Mobile Phone Charging on Coin Insertion

- Arduino-driven, self designed wireless phone charging system, a prototype by Wireless Energy Transmission to charge mobile phone batteries

Sun tracking solar panel with Automatic Auto-irrigation

- Auto irrigation system integrated with sun-tracking solar panel for optimal solar energy generation

Racing Drone

- A self-designed drone with custom design for racing
- Yielded us to get to semi-final in an International Drone Racing Competition organized by Robotics Association of Nepal.

Manual and Automatic bots

- A self-designed manual battle bots and automatic racing bots
- Yielded us bag several titles in intra-college, national and international robotics competition

Online Courses Projects

- Song Recommender System
- Image Classification System with Deep Features
- Similar Document Retrieval System
- Product Sentiment Analysis

Certifications

- Machine Learning with TensorFlow on Google Cloud Platform Specialization by Google Cloud on Coursera
- Neural Networks and Deep Learning by deeplearning.ai on Coursera
- Structuring Machine Learning Projects by deeplearning.ai on Coursera
- Machine Learning Foundations: A Case Study Approach by University of Washington on Coursera
- Data Analysis with Python, Python for Data Science and AI by IBM on Coursera
- Hadoop Administration from Udemy
- JENESYS 2016 SAARC First batch by Japan International Cooperation Center

References

- Rohit K. Upadhyay
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- Er. Suramya Sharma Dahal
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