

Nayathimi, Bhaktapur, Nepal
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PRAJIN KHADKA

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Hi, I am Prajin Khadka, Machine Learning Engineer with strong foundations in Mathematics and Programming and working as ML Engineer in Fusemachines Nepal since Dec 2019.

EMPLOYMENT

Machine Learning Engineer Associate Trainee	Fusemachines Nepal Dec 2019 - March 2020
Machine Learning Engineer Associate	Fusemachines Nepal April 2020 - Jan 2021
Machine Learning Engineer Level 1	Fusemachines Nepal Feb 2021 - Present

Projects

MicroDegree Content Creation

- Deep Learning Contents (Readings, Assignments, Quizzes, Projects)
- Machine learning Contents (Readings, Assignments, Quizzes, Projects)

Sequential and Time Series Data

- Worked on Time series Analysis
- Sequential modeling with RNN, LSTM
- Implement RNN, LSTM from scratch in Tensorflow, Model Building, Optimization

Proctored Exam Evaluation using AI system.

- Face Detection - Face Verification - Gaze Estimation for Proctored Exams.
- Face Liveness detection / Anti Spoofing .
- Verifying speakers(Audio Verification) in Proctored Exams.
- Deploying ML services using Docker and Kubernetes

Plagiarism Detection between documents .

- Similar sentences from from ElasticSearch (Syntactically similar)
- Semantically similar (Word embeddings)

EDUCATION

Bhaktapur Multiple Campus Institute of Science and Technology 2017-running(7th Semester) •
Bachelors in Computer Science and IT Coursework: Artificial Intelligence; Computer Architecture;
Data Structure and Algorithms; Software Engineering; Database Foundation; Operating Systems; C;
C++;Cryptography; System Analysis; Numerical Methods; Discrete Mathematics;Linear Algebra;
Statistics and Probability; Calculus;Image Processing; Neural Networks;Software
Engineering,Java,Cloud Computing;

TECHNICAL EXPERIENCE

Projects

- Nutrients Deficiency in Maize
 - Worked on implementing CNN to predict the Nutrients Deficiency in Maize Plant by scanning the leaves of Maize,especially the color of Maize leaf being an important feature.
- Human Activity Recognition From Smartphone (Accelerometer, Gyroscope Sensors)
 - Worked on recognizing Human Activity (walking ,Standing...) through Smartphone Sensor Data (Accelerometer, Gyroscopemeter) by using RNN and LSTM.
- CNN Heatmap Visualization
 - Understanding the underlying working of CNN
- Election Ballot paper classification
- Sentiment Analysis from text (fuse training)

ADDITIONAL EXPERIENCE AND CERTIFICATE

- Microsoft Certified Azure Data Scientist - [Certificate](#)
- AWS Certified ML Engineer - Speciality [Certificate](#)
- Deep Learning Specialization - [Certificate](#)
- Deep Learning NanoDegree - [Certificate](#)
- MongoDB for Python developers - [Certificate](#)
- Microsoft Student Ambassador 2019/20/21 - [Certificate](#)
- Participation in Hackathon(Machine Learning Hackathon by Yantra 2018, Everest,HeX)
- Machine Learning Trainer at 5 days ML Workshop, Butwal , Deerwalk College, Bhaktapur Campus
- Blockchain Speaker at GDG Kathmandu 2018
- Participated in 13 AI Workshop by AIDevNepal 2017
- Participated in NAAMI 2018
- Launching into Machine Learning - Certificate ID: [75CPQZM85A93](#)
- How Google does Machine Learning - Certificate ID: [UYNXSGMPFXN4](#)
- Deep Learning: Image Recognition - [Certificate](#)
- Deep Learning: Face Recognition - [Certificate](#)
- Deep Learning: Building Deep Learning Applications with Keras 2.0 - [Certificate](#)
- Building and Deploying Deep Learning Applications with TensorFlow - [Certificate](#)

Languages and Technologies

- Proficient: Python, (Pandas, Numpy, Matplotlib, Scikit-learn, Machine Learning Techniques, Tensorflow/Keras Flask, Git, Pytorch, JIRA, CI/CD Pipeline), Docker, Kubernetes, FastAPI
- Familiar With: C, C++, SQL, MongoDB, LaTeX, ,Azure, AWS Services, Elastic Search