Shashanka Prajapati

Senior Machine Learning Engineer Level I

I am a highly efficient Python Developer with skills honed over 4 years of experience. I have good communication skills that have come in handy when dealing with clients and leading a good team.

Work Experience

Fusemachines
Kathmandu, Nepal

Senior Machine Learning Engineer Level I — February 2021 - Present

- Managed a team of 3 and successfully created an AI model
- Rigorously involved in the hiring process of Python backend developers

Fusemachines
Kathmandu, Nepal

Machine Learning Engineer Level II — January 2019 - January 2021

- Team Lead of two teams and three projects
- Guided a team towards creating a working model for one of the projects
- Led a team towards successful implementation and deployment of two projects
- Involved in the hiring process of Machine Learning Associates and Content Developers

Fusemachines
Kathmandu, Nepal

Software Engineer Level I — May 2018 - December 2018

- Key contributor in the implementation of new features for search optimization and edge detection
- Decreased search time from a day to less than a minute
- Refactored entire codebase to improve performance and to write maintainable and extensible code by directing software design and development while remaining focused on client needs

Integrated ICT / Semantro
Lalitpur, Nepal

Intern — December 2017 - May 2018

- Successfully implemented an inventory search mechanism
- Learned Object Oriented Programming in Scala
- Learned about project management using Maven

CloudFactory
Lalitpur, Nepal

Intern — June 2016 - July 2016

- Learned the basics of Web Development using Ruby on Rails
- Learned to use tools like Git and X-Mind

Education

Siddaganga Institute of Technology (SIT)
Karnataka, India

Bachelor of Engineering, Computer Science and Engineering — August 2013 - June 2017

- CGPA: 8.91

Contact Info

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Tools and Technologies

Python · Scikit Learn · Computer Vision · Pandas · Seaborn · Search Optimization · ElasticSearch · Flask · Sphinx · Mongo · AWS S3 · JavaScript · TypeScript · React · Next · Tailwind CSS

Projects

Knee Transplant Size Estimation via Patient Demographics

Team Lead — December 2020 - June 2021

- Managed the developers working on the project
- Created and managed a proper project structure for ease of development
- Created 8 working models to predict 4 implant design and sizes with accuracies above 90% on each model

Standardization of Python Projects

Lead Developer — October 2020 - November 2020

- Researched standard python programming practices
- Created a python project starter template by modifying an existing template based on our needs
- Devised a training program for the python development lifecycle

Question Difficulty Estimation

Team Lead — July 2020 - September 2020

- Supervised the implementation and research for question difficulty estimation given various question features along with user attempt logs

Resource Recommendation System

Team Lead — April 2020 - September 2020

- Supervised the implementation of an optimized resource recommendation system for any given question using Elasticsearch
- Looked over project deployment and monitoring

PDF Data Extraction

Lead Developer — September 2019 - April 2020

- Implemented table localization in PDFs using Deep Learning Computer Vision techniques
- Implemented a novel table data extraction approach using signal processing

Knee Transplant Size Estimation via Medical Imaging Techniques

Developer — July 2018 - September 2019

- Worked on image registration by the application of edge detection and affine transformation on images
- Worked on derivative-free non-convex optimization methods for search space optimization
- Created the project architecture in consideration of standard python design patterns

Automated Answering System

Developer — May 2018 - June 2018

- Processed large conversation dataset which was mostly question-answer pairs
- Explored techniques used in Stanford Question Answering Dataset (SQuAD) Challenge

Bilingual Inventory Management

Developer — December 2017 - May 2018

- An optimized phonetic search algorithm that can search both Devanagari and Roman scripts
- Implemented using NLP techniques like RegEx, Lemmatization, n-gram tokenization, and TF-IDF word vectorization
- Applied Lucene search optimization

Projects

Sentiment Analysis

Developer — September 2016 - March 2017

- Amazon review classification
- Applied traditional NLP techniques

Undergraduate Major Project: Voice Assistant

Developer — September 2016 - March 2017

- An interactive personal assistant for Linux distributions
- Accepts voice commands and replies back or executes appropriate commands

Blogging Website

Developer — June 2016 - July 2016

- A simple blogging web app powered by Ruby on Rails

Undergraduate Mini Project: Online Examination System

Developer — February 2016 - June 2016

- A web application for online examination with Multiple Choice Questions

Certificates

First Nepal Winter School in AI

NAAMII — December 2018

CSMM.101x: Artificial Intelligence (AI)

ColumbiaX — May 2018