SHASHANKA PRAJAPATI

Senior Machine Learning Engineer

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
Senior Machine Learning Engineer

Kathmandu, Nepal
February 2021 - Present

- Consultant to Take-Two and Co-Team Lead of 7 Developers
- Automated workflows using Airflow
- Consultant to HSS and Team Lead of 3 developers
- Created several AI models in Sagemaker Notebooks
- Rigorously involved in the hiring process of Python backend developers

Fusemachines
Machine Learning Engineer

Kathmandu, Nepal
January 2019 - January 2021

- Team Lead to 4 developers for 2 AI Services in Fuse Classroom
- Consultant to Data Conversion Laboratory (DCLab) [Team Lead - 3 Developers]
- Developed and deployed several AI Services
- Conducted Python Standardization sessions
- Involved in the hiring process of Machine Learning Associates and Content Developers

Fusemachines
Software Engineer

Kathmandu, Nepal
May 2018 - December 2018

- Consultant to Enhatch [Developer]
- Implemented Search Optimization and Edge Detection algorithms
- Refactored legacy code base

Integrated ICT / Semantro
Intern

Lalitpur, Nepal
December 2017 - May 2018

- Implemented Inventory Search Mechanism in Scala

CloudFactory
Intern

Lalitpur, Nepal
June 2016 - July 2016

- Implemented a simple blogging website using Ruby on Rails
- Collaborated using Git and X-Mind

Education

Siddaganga Institute of Technology (SIT)
B.E. in Computer Science and Engineering

Karnataka, India
August 2013 - June 2017

- CGPA: 8.91

Contact Info

Red Cross Marg
Kathmandu, Nepal

+977 9818859888

shashankap0303@gmail.com

sp-95

shashanka-prajapati

Tools and Technologies

Python Scikit Learn

Computer Vision

Pandas Numpy

Seaborn Airflow

Search Optimization

ElasticSearch Flask

Sphinx AWS S3

JavaScript

TypeScript React

Tailwind CSS Next.js

Projects

Sales Prediction using Time-Series Forecasting
Co-Team Lead   August 2021 - Present

- Working on a legacy code base
- Managing Team Dynamics
- Automated project workflow via Apache Airflow

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

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

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

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

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

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

PDF Table 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

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

Sentiment Analysis
Developer   September 2016 - March 2017

- Amazon review classification
- Applied traditional NLP techniques

Projects

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

Undergraduate Mini Project: Online Examination System

Developer   February 2016 - June 2016

- A web application for online examination with Multiple Choice Questions

Blogging Website

Developer   June 2016 - July 2016

- A simple blogging web app powered by Ruby on Rails

Certificates

First Nepal Winter School in AI

NAAMII   December 2018

CSMM.101x: Artificial Intelligence (AI)

ColumbiaX   May 2018