

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