

# 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



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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

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- 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

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- A web application for online examination with Multiple Choice Questions

### Blogging Website

Developer June 2016 - July 2016

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- A simple blogging web app powered by Ruby on Rails

## Certificates

### First Nepal Winter School in AI

NAAMII

December 2018

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### CSMM.101x: Artificial Intelligence (AI)

ColumbiaX

May 2018

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