Vansh Shah

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EDUCATION

Indiana University, Bloomington | M.S. in Data Science | GPA : 3.8/4   *May, 2021*
Relevant Coursework: Applied Distributed System, Computer Vision, Exploratory Data Analysis ,Big Data, Machine Learning , Artificial Intelligence,Statistics, Software Engineering.
Nirma University, India | B.TECH in Information Technology | GPA : 3.6/4   *June, 2019*

TECHNICAL SKILLS

LANGUAGES : Python, Java,R, Reactjs, C, C ++ , JavaScript, HTML, CSS, XML, MATLAB.
DATABASE : MySQL, SQLyog, MongoDB, Express
TOOLS : Spyder, Scilab, Android Studio, Arduino IDE, Spark, Colab, R Studio, Excel, Git.
ML & DL frameworks : Intel openVino, Numpy, Pandas, Scikit-Learn, Keras, Tensorflow, Spark-mllib, OpenCv.

WORK EXPERIENCE

AIVIS.AI | Milpitas, CA, USA | Software Developer Team Leader   **May 2020 - Present**
- Developed an end to end project from creating a data pipeline to deploying deep learning models on edge cameras
- Modified and updated the Adam optimizer in Tensorflow library for training in half precision contributing to **OPEN SOURCE**
- Lead a team of 3 interns, developed and hosted web pages using React.js/HTML/CSS/Bootstrap on AWS.

Infostretch Corporation | **Software Developer | Astute ml**   **January, 2019 - June, 2019**
- Developed an AI testing suite which helps to optimize software testing life cycle by analyzing test cases and predicting useful information using various NLP methods like LSTM, Naive Bayes, Logistic regression thereby achieving an accuracy of 82%.
- Developed distributed machine learning framework using spark ml-lib, Hadoop File System, Rest API's, Apache Spark, Postman.

Chetan Traders | Full Stack Developer   **June, 2015 - December, 2018**
- Developed an internal self check-out inventory website using Angular.js/HTML/CSS/Java/Spring Boot.
- Developed an end-to-end web application using Agile to bridge the gap between delivery of goods and Customer using secure login using Auth0, Chat System, Tracking API, Order booking using Java/Spring Boot/Reactjs and deploying on AWS.
- Analysed and optimised the business operations using Tableau.

ONLINE SPECIALIZATIONS

- Self-Driving Car – Behavioral Cloning   July 2020
- Fundamentals of Spark and Hadoop   May 2019
- Financial Markets @ YALE UNIVERSITY
- Fundamentals of SQL   May 2018
- NPTEL C Programming   May 2016

ACHIEVEMENTS

- Categorized Top Performer employee @ Infostretch 2019
- Scored 100% in graduate level statistics course @ IUB
- Oracle certified professional Java developer
- Promoted to team lead at AIVIS.AI
- Scored 100 % in PHD level Computer vision course

ACADEMIC PROJECTS

Weather Forecasting Web Application using Microservice Architecture   **Jan, 2020 - May, 2020**
- Developed a fault tolerant weather forecasting web app using ISTIO service mesh on microservice based architecture
- Implemented dockerized microservices using Python, Java and NodeJS, frontend with React, internal communication using queue messaging service RabbitMQ, database management using MongoDB and CI/CD using TRAVIS CI/CD
- Deployed the project to production on Jetstream Cloud infrastructure using OpenStack API

SAFE : "Safe Path Approximation for Elementary Schools"   **January, 2020 - May, 2020**
- Designed and developed a web application to predict safe routes for elementary school students.
- Implemented a backend microservice in Django to identify safe route between two coordinates using A* and concurrent BFS
- Created a schema for MongoDB database to store coordinates and school data.
- Trained convolutional neural networks using Alexnet and Resnet architectures to identify traffic lights, stop signs, traffic signs, crosswalk, sidewalks with an accuracy of 82% on the test dataset of 20,000 images collected within 1 mile radius of school.

Food Delivery System   **September, 2019 - December, 2019**
- Implemented an end-to-end web application using Agile that connects restaurants to customers and food delivery staff.
- Developed the Web User Interface and RESTful backend services for user authentication, public view, customer, delivery and restaurant portals using Angular, Express and MongoDB.
- Incorporated features such as saving details of customers, delivery staff, & restaurants, processing orders, private chat between delivery staff & customers, group chat between restaurants & delivery staff and updating items in the menu.