Vama Shah

Rochester, NY • vamashah21@gmail.com • (585) 410-7319 • www.linkedin.com/in/vamashah21

TECHNICAL SKILLS

Languages: Python, Java, SQL, C/C++, JavaScript, Matlab, Angular
Database: MySQL, Oracle DB, MongoDB
Analytical: Machine Learning, Artificial Intelligence, NLP, Data Structures and Algorithms
Tools: ThreeJS, BitBucket, Jira, GitHub, Jupyter Notebook
Libraries: PyTorch, Numpy, SciPy, Tensorflow, Pandas, Scikit-learn

EDUCATION

Rochester Institute of Technology, Rochester, NY **Aug 2020 – Expected May 2023**
Master of Science, *Computer Science* **GPA: 3.5/4.0**

K. J. Somaiya College of Engineering, University of Mumbai, India **Aug 2015 - May 2019**
Bachelor of Technology, *Electronics and Telecommunication Engineering* **GPA: 7.34/10**

PROFESSIONAL WORK EXPERIENCE

Software Development Engineer Intern **Jan 2022- Present**
MINDEX Technologies Inc., Rochester, NY

- Member of the SOW team responsible for developing and testing software to process company tax information and reduce tax burden for the company by 66%.
- Working with the following technologies: **Java 6 and 8, Spring Framework, Gradle, Maven, Jenkins, AngularJS**
- Contributing to the development of new modules and enhancement of existing ones to design and develop flow-based solutions between UI and Mongo Database for client ***Paychex***
- Following agile-scrum methodologies for project management

Assistant Systems Engineer **Nov 2019 – Dec 2020**
TATA CONSULTANCY SERVICES (TCS), Mumbai, India

- Worked on development of in-house Data Science Platform for client
- In-charge of onboarding new users and developing Python scripts to automate user-access to the platform
- Focused on automating specific project requirements to use the platform which included automating the creation of virtual environments with the required set of packages which reduced set-up time by 95%
- Used **Django** and **SQL** to maintain the data science platform

PROJECTS

Topic Modelling for Olympic and Fashion News https://github.com/vama-rit/Topic-Modelling-for-Olympic-and-Fashion-News **Fall 2021**

- Identified distinct topics occurring in large sets of documents based on the frequency of words present in them
- Used LDA model to perform modelling and measured the performance using coherence and perplexity
- Identified topics after data cleaning and data pre-processing with 89% accuracy

Binary Classifier using PyTorch **Fall 2021**

- Created a binary classifier using PyTorch to implement a single logistic regressor
- Obtained decision boundary using the classifier to visualize class regions with classification accuracy of 98%

Optimal Path Generation for Orienteering **Spring 2021**

- Found the shortest path between two coordinates on a 3D map by performing the A* search algorithm which is 40% faster than any naïve search algorithm
- Considered optimal path for orienteering considering different types of terrain and elevations and used BFS to detect water body edges which improved performance by 20%

ASL Gesture Recognition and Conversion from text to speech **Spring 2019**

- Built and trained a Convolutional Neural Network to recognize hand gestures with 94% accuracy
- Employed image processing techniques to filter incoming hand images and make them easier to train on/get recognized by the neural network
- Used Tensorflow library for implementation of the deep learning model and understood its various components

HACKATHONS

Neighborhood Evacuation WebApp- https://devpost.com/software/neighborhood-evacuation **Spring 2022**
BrickHacks 2022

- Developed a web app that allows users to post location determining availability of shelter, supplies or transport
- Technologies used- **Python**, **Django web framework**, **Cloud services and APIs**

EmployeeFit Productivity Tool- https://devpost.com/software/employeefit **Spring 2022**
WicHacks 2022

- Implemented a decision tree machine learning algorithm to determine work preference of work from home or office and obtained a 76% accuracy for determination of work preference
- Technologies used- **Python, Mental Health of Employees dataset from Kaggle**