

Vama Shah

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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 - May 2023

Master of Science, *Computer Science* GPA: 3.5/4.0

Relevant coursework – Intro to Big Data, Intro to Machine Learning, Foundations of Artificial Intelligence, Data Structures and Algorithms, Big Data Analytics, Information Text and Retrieval

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

- Responsible for developing and testing software with **90%** code coverage to process company tax information from **23 states** and reduce tax burden for the companies by **66%**.
- Proposed requirement for priority status of incoming files and implemented it to increase processing speed by **80%**
- Developed new modules and enhanced existing ones to design flow-based solutions between UI and Mongo Database for client **Paychex** based on **Agile** methodology
- Technologies used- **Java 6 and 8, Spring Framework, Gradle, Maven, Jenkins, AngularJS, TypeScript**

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 **80+ 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%**
- Technologies used- **Python, Django, SQL**

Student Lab Instructor, Grader

Aug 2021- Dec 2021

Rochester Institute of Technology, Rochester, NY

- Responsible for holding mentoring hours and Problem Solving Sessions for Graduate Level Course- Computational Problem Solving using Python for **30+ students**
- Grader for Graduate and Undergraduate Level Course - Advanced Programming Skills for **30+ students**

PROJECTS

Topic Modelling for Olympic and Fashion News <https://github.com/vama-rit/Topic-Modelling-for-Olympic-and-Fashion-News>

Sept 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

Sept 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

Feb 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 thus improving performance by 20%

ASL Gesture Recognition and Conversion from text to speech

Jan 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. Technologies used- **TensorFlow, Keras, Python, CNN**

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**