# Vama Shah

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**TECHNICAL SKILLS**

**Languages**: Python, Java, SQL, C/C++, JavaScript, Matlab, Angular, SpringBoot, HTML/CSS

**Database**: MySQL, MongoDB, Non-relational Database, GraphQL, Neo4j

**Analytical**: Machine Learning, Artificial Intelligence, NLP, Data Structures and Algorithms

**Tools**: ThreeJS, BitBucket, JIRA, GitHub, Jupyter Notebook, Jenkins

**Libraries:** PyTorch, Numpy, SciPy, Tensorflow, Pandas, Scikit-learn, BeautifulSoup

**EDUCATION**

**Rochester Institute of Technology, Rochester, NY Aug 2020 - May 2023**

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

***Relevant coursework* –** *Object-Oriented Programming Concepts– Java, 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** | ***Java 6 and 8, Spring Framework, Gradle, Maven, Jenkins, AngularJS* Jan 2022- Present**

**MINDEX Technologies Inc., Rochester, NY**

* Developed and tested 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

**Assistant Systems Engineer | *Python, Django, SQL* 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%**

**PROJECTS**

**Topic Modelling for Olympic and Fashion News | *Python, SciPy, NLP* Sept 2021**

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

* 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 | *Python* Sept 2021**

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

**Optimal Path Generation for Orienteering | *Python* 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 | *TensorFlow, Keras, Python, CNN* 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.

**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***

**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***