Shivang Raikar

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EDUCATION

University of Massachusetts   **Boston, Massachusetts**
Master of Science in Computer Science (GPA: 3.7)   **Sep 2021 - May 2023**
Coursework: Neural Networks, Applied Machine Learning, UI/UX Design, Biomedical Signal and Image Processing

University of Mumbai   **Mumbai, India**
Bachelor of Engineering in Computer Engineering (GPA: 8.69/10)   **Aug 2018 - Jun 2021**
Coursework: Data Structures and Algorithms, Database Systems, Distributed Systems, Machine Learning, Operating Systems

SOFTWARE SKILLS

- **Programming Languages:** Python, SQL, C, C++, HTML5, CSS3, Java, JavaScript, Go, Php
- **Technologies:** Flask, Streamlit, AWS, Bootstrap, .Net, Scikit-Learn, TensorFlow, NLTK, Relational DBMS
- **Tools and IDE:** Google Colab, MySQL, Git, Selenium, VSCode, NetBeans, JUnit, Eclipse, GCP
- **Databases:** MongoDB, Firebase, MySQL, PostgreSQL
- **Platforms:** LINUX, Windows, macOS

PROFESSIONAL EXPERIENCE

University of Massachusetts   **Boston, Massachusetts**
Teaching Staff, Computer Graphics, CS 460 and Introduction to Software Engineering, CS 410   **Sep 2022 - May 2023**
- Contribute towards teaching and mentoring 4 project groups, 15+ students with project development, doubt-solving, and collaborations.

Crane Payment Innovations   **Malvern, Pennsylvania**
Software Engineering Intern   **Jun 2022 - Aug 2022**
- Spearheaded **60** automated test scripts in the pipeline and refactored **70** scripts, improving the overall testing time by **60%** and reducing the execution per test cycle from **5 weeks to 2.5 weeks** required.
- Actively involved in task tracking using **JIRA** and cross-functional communication with key stakeholders in the business.
- Worked in a scrum team of 5 - 7 developers to further develop and contribute work to one of CPI's web applications and APIs.
- *Technologies: Java, Selenium, TestNG, JavaScript, Jenkins, Maven, Jira*

Stokes Automotive   **Mumbai, India**
Software Engineering Intern   **Jan 2021 - Jul 2021**
- Co-led a web development team to build a web application for the company to increase user engagement and bounce rate by **20%** recorded by google analytics.
- Performed **Usability and Functionality** testing on prototypes in accordance with the **150 test cases** developed by working individuals as a part of test automation.
- Established and achieved **18 weekly goals** by handling the Business administration side of the project by following the **SDLC** application development idea.
- *Technologies: HTML5, CSS3, JavaScript, Bootstrap, MySQL, Oracle, REST*

Diazaonic Labs   **Mumbai, India**
Data Science Intern   **Jun 2020 - Oct 2020**
- Coordinated a series of virtual networking sessions and facilitated introductions between **30+ peers** on LinkedIn, GitHub, and technical platforms; generated over **20 new** business leads and increased overall networking ability by **50%.**
- Designed python scripts for **8 parameter** selection and input/output image read and write operations.
- Imported and operated on libraries such as **NLTK, Flask, wordcloud,** and **Wikipedia** library for scraping authorized data over the internet that accelerated the output result time from **5 to 3 seconds.**
- *Technologies: Python, Flask, Pandas, NumPy, NLTK, VScode, Stopwords, Flask*

PROJECTS

Data Science Unicorn (Link**)**   *Python, Streamlit, AWS, Git, HTML5, CSS3, Heroku*
- Created and hosted a web tool to predict the salary of a Data Scientist by considering 15 input parameters aligning with a real-life datasets survey of 10,000 working individuals.

WordCloud Kit (Link**)**   *Python, Heroku, FlaskApp*
- Engineered a real-time web application to ingest an input string, process it, and generate a wordcloud to visualize summary data. Produces a summary of large documents (reports, speeches) to create art on a topic or to visualize data.

Climate Clock (Link**)**   *Python, Flask, SQL, Swift, Pythonista*
- Built an iOS application that serves as a live climate clock that monitors and tracks 7 data streams from reaching a particular set of thresholds given current emissions trends. Open source: https://climateclock.world/

RESEARCH & PUBLICATIONS

- **Raikar, S.**, Nagarkar, P., Zantye, A., & Khan, A. (2020, July). Twitter Data Mining for Targeted Marketing. In *2020 Second International Conference on Inventive Research in Computing Applications (ICIRCA)* (pp. 44-50). IEEE. (Paper)
- **Raikar, S.**, Mhatre, V. (2018, January). Security system in Sensor Networks. *Winner at Navjeevan Institute of Technology,* Paper presentation.