SHUBHAM GAIKWAD

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EDUCATION

Master of Science, Computer Engineering Aug 2022 - May 2024 (Expected)
San Jose State University, San Jose, California **GPA: 3.9 / 4.00**

- Relevant Coursework: Data Structure and Algorithm(C++), Machine Learning, Big Data Algorithms, Operating Systems

Bachelor of Technology, Electronics and Communication Engineering Jul 2016 - May 2020
Visvesvaraya National Institute of Technology (VNIT), Nagpur, India

- Relevant Coursework: Operating Systems, Network Security, Distributed Systems, Computer Architecture

TECHNICAL SKILLS

Programming Languages: Java, C++, C, Python, Bash Script
Frontend and Web: HTML, CSS, JavaScript, TypeScript, Angular, NodeJS, React, Karma, Jasmine, Storybook, Webpack
Big Data and Data Science: Pandas, Scikit-learn, NumPy, Apache Spark, PyTorch, Tensorflow, Jupyter Notebook
Cloud: Amazon Web Services (AWS), Microsoft Azure
Tools: MATLAB**,** Git, GitHub, Docker, MongoDB, Android Studio, Linux, Spring Boot, Agile Scrum Development
Databases: SQL, MySQL, Relational Database (RDBMS), NoSQL

EXPERIENCE

Graduate Research Mentorship, SJSU, CA, USA, (link) Feb 2023 - present

- Graduate research mentorship under Professor Vishnu Pendyala working on research about **Deep Learning**

Software Engineer II, Philips Innovation Campus, Bangalore, India Aug 2020 - Jul 2022

- Developed reusable web component using **Typescript**, **Lit** and unit testing with **Karma** and **Jasmine** framework
- Delivered key feature of adding contour to human body element rendered on patient monitor, **which assisted doctors in better comprehending patient's condition**.
- **Automated process** for creating web component scaffolds using bash script, resulting in a time **saving of 30 minutes** per developer, allowing for increased productivity and efficiency

Java Developer Intern, Mechatronics System Private Limited, Pune, India May 2018 - Jul 2018

- Redesigned employee login portal leveraging **Java**, **Servlet**, **JSP**, and updated the Datastore connection with **MySQL**, resulting in a more secure and user-friendly login flow.

PROJECTS

Heart Failure Prediction using Machine Learning, SJSU, CA, USA, (link) Jan 2023 – May 2023

- Developed a predictive machine learning model to identify key risk factors and predictors of patient survival in heart failure.
- Implemented various classifiers **(Logistic Regression, Random Forest, XGBoost, SVM, and Decision Tree) from scratch** to perform classification**,** achieving highest accuracy of 85.24% with **Random Forest**
- Applied **SMOTE to address class imbalance**, boosting Logistic and XGBoost accuracy to **77%**.

California Tweet Trends by Region, SJSU, CA, USA, (link) Sept 2022 – Dec 2022

- Designed and developed a web application using **MERN architecture** to provide insight into the priorities of California citizens by analyzing 50000 tweets and presenting them on an interactive map
- Created the landing and maps layout page using **ReactJS** to enhance the user experience
- Enabled users to search tweets by coordinates and interact with a California map displaying all tweets.

Motion Planning for Self-Driving Car, NIT Nagpur, India Jul 2019 - May 2020

- Goal was to create a fully functional motion planner for an autonomous car that can handle real-world scenarios
- Implemented conformal lattice planner in **Python** for path generation and performed simulation on **CARLA simulator**
- Presented results in a research paper at AISCC-2020, MNIT, Jaipur

AWARDS AND ACHIEVEMENTS

- Won '**Team up to Win**' Award at Philips twice for excellent collaborative work
- Passed IIT-JEE Mains Exam - ranked 10k out of 1.2 million applicants
- Achieved **A** grade in Machine Learning and Data Mining course