

VAISHNAVI NIKAM

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EDUCATION

Syracuse University

Master of Science in Computer Science | **GPA: 3.33/4**

Syracuse, NY, USA

August 2024 - May 2026

Coursework: Design and Analysis of Algorithms, Computer Architecture, Assured Programming with Formal Methods, Applied Natural Language Processing, Advanced Principles of Operating System, Database Management System.

University of Mumbai

Bachelor of Engineering in Computer Engineering | **GPA: 8.63/10**

Mumbai, India

August 2020 - May 2024

Coursework: Data Structures, Object-Oriented Programming, Operating Systems, Computer Network, Database Management, Data Warehousing and Mining, Machine learning, Mobile Computing, Software Engineering, Cloud computing.

TECHNICAL SKILLS

- **Languages:** C++, Java, Swift, Python (Scikit-learn, Matplotlib, Pandas, Seaborn)
- **Frontend Technologies:** HTML, CSS, TailwindCSS, JavaScript, ReactJS, Typescript
- **Backend Technologies:** Spring Boot, Node.js, Express.js, Golang
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Tools:** Git, Visual Studio, MySQL Workbench, Jupyter, Postman, Eclipse
- **Other:** Github, AWS, Docker, WordPress

WORK EXPERIENCE

Fusion Jewelry Manufacturing Company Private Ltd.

Mumbai, India

Software Engineer Intern

January 2024 - June 2024

- Collaborated with a team of 10 engineers to optimize GATI software, a key outsourced solution for tracking manufacturing goals, production processes, and workers, leading to improved operational efficiency.
- Analyzed business requirements and identified key inefficiencies, ensuring the software was aligned with organizational goals to streamline operations and improve productivity.
- Played a key role in identifying and addressing system gaps, enabling more accurate tracking and reporting, resulting in a 10% improvement in worker capability optimization and enhanced business performance.

PROJECTS

Sight - iOS App for Visual Impairment Assistance

January 2025 - Present

Swift, XCode, Go, Google Vision API, Facebook API, NGrok

- Built a native iOS app in Swift to assist visually impaired users in recognizing faces, identifying objects, and reading text aloud.
- Integrated Google Vision API for real-time OCR, sentiment analysis, and object detection.
- Utilized Facebook's tagging algorithm to identify and announce user's friends through face recognition.
- Developed a Go-based backend, optimizing image processing and integrating with Facebook's private API for seamless user experience.
- Currently working on incorporating personality description and fall detection algorithms for enhanced safety features.

Framework for Groundwater Quality Prediction

December 2023 - May 2024

Python, Scikit-learn, Matplotlib, Pandas, Seaborn

- Led a team of four members to develop a predictive model for assessing groundwater quality using machine learning.
- Computed Water Quality Index (WQI) to classify water into five categories: *very bad*, *bad*, *medium*, *good*, and *excellent*.
- Analyzed 14 key parameters (pH, EC, Total Hardness, Sodium, Calcium, etc.) to train various classification models.
- Achieved 96.61% accuracy using XGBoost, with a 90.58% cross-validation score, optimizing feature selection through Correlation Analysis.

PUBLICATIONS

- Presented the research paper "**Predictive Model for Assessment of Consumable Water: Comprehensive Review**" at the "8th International Conference on Engineering Research and Innovations" (Navi Mumbai, September 2023), highlighting a machine learning-based model for assessing water quality, fostering discussions on innovative techniques in water management.