PARTH SHIROYA

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EDUCATION

Master of Science in Computer Science — **August 2023 - May 2025**

California State University - Sacramento, California, United States

Bachelor of Engineering in Information & Communication Technology — **August 2019 - May 2023**

Gujarat Technological University, Gujarat, India

SKILLS

Programming: Python, Java, C#, JavaScript, Typescript, HTML/CSS, C, C++, SQL, SML, php

Databases: MySQL, SQLyog, MongoDb, Microsoft SQL Server, Oracle SQL

Frameworks: .NET, React, PowerBI , Pandas, Numpy, Scikit-Learn, SciPy, PyTorch, Keras, XGBoost, NLTK, Angular

EXPERIENCE

Web Developer Student Assistant **Information Resources & Technology (IRT) - CSUS, Sacramento** — **January 2024 - May 2025**

- Developed and maintained responsive web applications for the Technology Department using HTML5, CSS3, JavaScript (ES6), and PHP, enhancing online platforms.
- Utilized Git for version control, collaborating through code reviews and merge requests.
- Provided Tier 1 & Tier 2 technical support, troubleshooting hardware, software, and network issues for students, faculty, and staff.

Data Analytics Intern **California Air Resources Board (CARB), Sacramento** — **January 2025 - April 2025**

- Developed and maintained Power BI dashboards for real-time air quality data visualization, delivering insights on air pollutants and their concentrations.
- Created interactive Power BI reports to allow users to explore and analyze air quality trends, supporting data-driven decision-making.
- Utilized Python for data preprocessing and transformation, enhancing the efficiency and accuracy of data workflows.

Software Development Intern **Yardi Systems, Oxnard,CA** — **May 2024 - August 2024**

- Developed interactive and responsive dashboards using Angular and TypeScript, improving user experience with real-time data updates.
- Integrated SQL Server with Angular using advanced queries and data-binding for efficient data handling.
- Built robust C#/.NET backend services, ensuring seamless frontend-backend integration and efficient business logic handling.
- Designed and implemented RESTful APIs using .NET Core, incorporating authentication, authorization, and error handling for secure and scalable communication.

Web Development Intern **Tops Technologies - Ahmedabad, India** — **Jan 2023 - May 2023**

- Contributed to the development of a comprehensive online household services ordering platform using Java, and MySQL.
- Designed and implemented three web applications: a customer-facing portal, a service provider portal, and an admin portal, using a responsive design approach with HTML5, CSS3, and Bootstrap.
- Implemented user registration, service ordering, and Razorpay payment integration for a smooth user experience.

PROJECTS

ICU Mortality Prediction using Real-World Clinical Data — **Spring 2025**

- Developed ICU mortality prediction models with Python, XGBoost, and PyTorch on MIMIC-III and eICU datasets, achieving robust performance and generalization across independent clinical sources.
- Conducted extensive data preprocessing, feature selection, and model training using structured variables including vitals, lab values, etc.
- Achieved AUC-ROC of 0.771 (XGBoost) and 0.758 (Neural Net), with recall up to 64.8%, enabling identification of high-risk ICU patients.

Personal Portfolio Website [Project Link] — **Spring 2024**

- Designed and developed a responsive portfolio website using React and CSS. Implemented smooth motion transitions to enhance user interaction and navigation, creating a dynamic and engaging user experience.
- Ensured the website's performance and responsiveness across various devices by leveraging Vite for efficient development and optimized build processes. Ensured compatibility with different screen sizes and devices for a seamless viewing experience.

Credit Card Fraud Detection Model — **Fall 2023**

- Developed a credit card fraud detection model using Python, scikit-learn, XGBoost, TensorFlow, and imbalanced-learn libraries, implementing Random Forest, XGBoost, Neural Networks, and Support Vector Machines on both balanced and imbalanced datasets.
- Compared different models and techniques, providing insights for effective fraud detection, emphasizing the importance of addressing class imbalance and utilizing appropriate evaluation metrics for imbalanced datasets.