

# Rutuja Mandapmalvi

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## Education

University of Washington, MS Computer Engineering

Expected graduation: August 2026

- GPA: 4.0/4.0
- **Coursework:** Machine Learning for Cybersecurity(WI25), Advanced Data Structures And Algorithms, Introduction to Database Systems(WI25)

University of Pune, Bachelor of Computer Engineering

September 2018 - April 2022

- GPA: 3.6/4.0
- **Coursework:** Software Computing and Optimal Algorithm, Software Testing and QA, Software Engineering and Project Management, Cloud Computing

## Skills

**Programming Languages:** Python, Javascript, MySQL, CSS, HTML

**Technologies:** Node.js, React, AWS, Jenkins, postman, Git, ExpressJS, Agile, Jira, REST APIs

**Soft Skills:** Leadership and Team Management, Communication, Collaboration, Adaptability, Problem Solving

## Experience

Packaged App Development Analyst , Accenture

May 2024 - September 2024

- Developed and maintained APIs and routes for a buyer-supplier web application using Node.js and Express.js, ensuring responsive and adaptive system behavior.
- Performed unit testing for CRUD operations, conducting test cases to provide essential debugging and bug resolution, achieving reduction in bugs and ensuring high-quality, reliable code.

Software Engineer, Persistent Systems Limited

January 2022 - March 2024

- Contributed to a ReactJS-based internal project, helping develop a file-generating platform that enhanced project delivery efficiency by **25%** while collaborating effectively with cross-functional teams.
- Implemented features for IBM AppConnect using Node.js and Express.js to integrate various web applications, resulting in **0 missed communication** and providing robust, scalable solutions, demonstrating problem-solving.
- Leveraged Jenkins, GitHub, and Postman for API testing, ensuring smooth feature deployment and achieving a high code reliability rate through rigorous unit testing.
- Supported quality assurance through detailed sprint planning in JIRA and led client demos and knowledge transfer sessions.

## Projects

F1-gpt, chatbot for F1 motorsport

github.com/rutuja/f1gpt

- Developing F1 GPT chatbot using OpenAI's text-embedding-3-small model to generate accurate and relevant responses to F1 motorsport queries.
- Leveraged Next.js for front-end integration and DataStax for managing and querying a custom dataset to provide dynamic responses.
- Scraped data from multiple F1-related webpages, structuring it into a cohesive dataset for efficient retrieval and use by the chatbot.

Food Calories Estimation Using Image Processing

- Applied feature extraction techniques to capture essential characteristics from food images, such as texture, color, and size, ensuring accurate classification of food items with an accuracy rate of **95%**.
- Utilized Convolutional Neural Networks (CNN) for feature extraction and classification, achieving a classification accuracy of **95%** on the test dataset.
- Executed image pre-processing steps, including resizing and converting RGB images to grayscale, to minimize noise and optimize computational efficiency.

Analysis and Estimation of Child Mortality and the Influence of Maternal Care on it

- Built a project that analyses the Infant Mortality Rate (IMR) in India using data from the National Family Health Survey (2015-16) to explore the influence of maternal care.
- Employed a multiple regression model to assess the relationship between IMR and various maternal care factors.
- Conducted data visualization for key insights, effectively presenting findings through charts/graphs that highlighted trends and correlations.