

Naziya Mahimkar

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EDUCATION

Savitribai Phule Pune University | Pune

November 2021 - July 2025

B-Tech Computer Science, **GPA: 9.86**

- Awards: Highest GPA in 1st Year

PROFESSIONAL EXPERIENCE

Wolters Kluwers India Pvt. Ltd.

July 2024 - Present

Data Science Intern

- Developed and implemented an AI-powered debugging application for legacy software, reducing debug time by 15% and improving system maintainability.
- Automated daily data backup processes, ensuring 100% data integrity and security compliance across multiple projects.
- Additionally, researched and implemented ONNX optimization techniques, explored prompt engineering strategies, fine-tuned LLM models using optimized LoRA techniques, and deployed models with vLLM.

Forage Virtual Experience, (J.P. Morgan)

March 2024 - March 2024

Software Engineer

- Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to interpret data 40% faster.

PROJECTS

Stock Market Prediction using Time Series Models

March 2024

- Predicted stock market prices using time series models LSTM and Sentiment analysis.
- Error Reduction: Minimize errors and deviations between predicted values and actual market movements. • Achieved a Mean Absolute Error (MAE) of 1.97, Mean Squared Error (MSE) of 6.66, and Root Mean Squared Error (RMSE) of 2.58, demonstrating strong predictive accuracy and model performance.

Detection of COVID-19 and Viral Pneumonia using X-rays

December 2023

- Developed a novel machine learning model using TensorFlow and Keras, achieving an impressive accuracy rate of 95.96 % .
- Proposed a custom activation function and a lightweight model architecture for a paper currently in the process of publication.
- The Objective of this project was to assist doctors in detecting COVID-19 using X-rays. This had a significant impact on the result time for COVID-19 test.

OptiTrip- Tourist Path Optimization Website

July 2023

- Created a web application utilizing Python and Flask to offer optimal tourist paths for visiting places of interest using the Travelling Salesman Problem Algorithm.
- Streamlined travel itineraries for an enhanced tourist experience.

SKILLS

- Programming Languages:** C, C++, Python, Java, HTML, CSS
- Databases:** MySQL, MongoDB, Azure Blob Storage, SQL Server
- Cloud Computing:** Microsoft Azure (Blob Storage, AI Services, Virtual Machines)
- AI & Machine Learning:** LLM Training, vLLM Deployment, ONNX Optimization,(RAG), Multi-Agent Systems
- DevOps & Version Control:** Docker, Kubernetes, Git
- Data Visualization:** Power BI, Tableau, Microsoft Excel

LEADERSHIP AND EXTRACURRICULAR

- Data Science for Engineers by Indian Institute of Technology- Madras (NPTEL) (March 2023)**
- Vice President, Cybercell VIIT:** Led cybersecurity initiatives and organized VishwaCTF