ATHARVA MENAVLIKAR

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EDUCATION

Rochester Institute of Technology — Rochester, NY
Master of Science in Computer Science — Aug. 2023 – Dec. 2025
GPA: 3.36/4.0
Relevant Coursework: Advanced Object-Oriented Programming, Foundations of Algorithms, Artificial Intelligence, Machine Learning, Big Data Analytics, Information Retrieval

Savitribai Phule Pune University — Pune, India
Bachelor of Engineering in Computer Science — Aug. 2019 – May 2023
GPA: 3.56/4.0
Relevant Coursework: Data Structures and Algorithms, Data Analytics, Database Management Systems

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C++, SQL
Web Development & Frameworks: Node.js, Express.js, AngularJS, React.js, Next.js, Flask
Machine Learning & Data Science: Scikit-learn, TensorFlow, PyTorch, Keras, CNN, Deep Learning, Transfer Learning, Generative AI, NumPy, Pandas, Matplotlib, Seaborn, NLTK
Databases: MongoDB, PostgreSQL, Neo4j
Cloud Platforms & Tools: AWS (EC2, SageMaker, S3, Lambda), Google Cloud, Pickle, Git

EXPERIENCE

Appzen — June 2024 - Aug. 2024
Customer Engineering and Global Support Intern — *Pune, India*

- Analyzed and validated 2,000+ customer issues for **advanced AI-driven expense auditing models**, ensuring high-quality performance and contributing to a 20% increase in user satisfaction. Conducted in-depth data analysis to identify recurring patterns that enhanced model accuracy and resolved bugs, leading to a 30% reduction in error rates and significantly improving system reliability.
- Categorized and prioritized **150+** customer issues weekly, streamlining workflows and reducing turnaround time by 15%, resulting in a 25% boost in overall customer satisfaction.

Bhabha Atomic Research Centre, Department of Atomic Energy, Government of India — Dec. 2022 – May 2023
Machine Learning Intern — *Mumbai, India*

- Monitored over 10,000 protein crystal growth images for **X-ray crystallography** using **Convolutional Neural Networks (CNN)** and transfer learning, improving growth stage classification accuracy by 25%, which enhanced reliability in crystallization assessments and protein structure analysis.
- Trained a high-resolution image dataset using **ResNet-50**, achieving **91%** accuracy in classifying crystal growth across 4 stages used in **X-ray diffraction analysis**, supporting drug discovery and vaccine development through improved crystallization evaluation.

DroneAcharya Aerial Innovations Limited — Nov. 2022 - Jan. 2023
Software Development Intern — *Pune, India*

- Designed and developed a **full-stack web interface** to visualize drone-captured data as a **Web Mapping Service (WMS)** for geospatial analysis. Built the backend using **Node.js** & **Express.js**, and assisted in developing a responsive frontend with **AngularJS**, improving user interaction speed by 20%. Utilized **MongoDB** for efficient geospatial data management and integrated OpenLayers to render interactive maps in the browser.
- Developed an interactive web page for a proposed project showcasing drone applications in **agriculture and surveillance**, highlighting multiple real-world use cases aimed at improving operational efficiency and enabling **data-driven decision-making** for clients.

PROJECTS

Movie Recommendation System
Tools: [Pandas, Numpy , ScikitLearn, Pickle, Flask]

- Implemented a **content-based movie recommendation system** using machine learning, leveraging **Cosine Similarity** to deliver personalized film suggestions based on features like keywords, ratings, and cast. Achieved a 35% improvement in recommendation relevance, significantly enhancing user engagement and retention in test scenarios. The underlying framework is adaptable for recommending personalized educational content.