Chaitanya Chaudhari

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EDUCATION

George Mason University — Fairfax, VA
Master of Science in Computer Science GPA: 3.83/4 — *Aug 2024 – Expected May 2026*
Relevant Coursework: Artificial Intelligence, Cloud Computing, Network Security, Data structures and Algorithms

Savitribai Phule Pune University — Pune, India
Bachelor of Engineering in Computer Engineering — *May 2020 – Jun 2024*

EXPERIENCE

Software Development Intern — Jan 2023 – Mar 2023
Cognifront Software Pvt. Ltd
- Improved backend performance by **30 %** by translating business requirements into optimized **Python & SQL** workflows for high-traffic enterprise applications.
- Cut backend latency by **20%** by redesigning distributed deployment pipelines using Docker and **CI/CD**, enabling smooth handling of thousands of concurrent requests.
- Collaborated in an **Agile team** to refine system architecture and database indexing, boosting real-time data throughput by 15% across critical modules.

Community Educator & Program Coordinator — May 2022 – Aug 2024
Vedhas Organisation (NGO)
- Delivered STEM and academic lessons to socioeconomically disadvantaged youth, **improving engagement** and building stronger technical foundations for **150+** students.
- Managed operations and **outreach initiatives, coordinating resources**, schedules, and volunteers to expand program reach and maintain quality of education.
- Partnered with peers to design a sustainable teaching framework, incorporating mentorship and digital tools to ensure long-term community impact.

PROJECTS

Distributed LLM-Powered Product Recommendation Engine | *Python, PyTorch* — Aug 2025 – Present
- Designed and fine-tuned large language models (LLMs) using Hugging Face and PyTorch on datasets, achieving a 25% improvement in recommendation accuracy by leveraging advanced transfer learning and fine-tuning pipelines.
- Built scalable machine learning pipelines with **PySpark** for data ingestion, feature engineering, and model deployment, data security protocols, and error handling to ensure reliable production performance.

High-Performance News Analytics Platform | *Python, newspaper3k, MarianMT* — Jun 2025 – Jul 2025
- Pioneered NLP microservices for multilingual news fact-checking using newspaper3k, Hugging Face's MarianMT, and Chroma, achieving **85%** claim verification accuracy and reducing false information spread by **25%.**
- Deployed containerized enterprise-grade Streamlit application with **Docker** for real-time analysis of large-scale datasets, implementing zero-shot classification models with **80%** accuracy

Uni-Survey – Full Stack Campus Survey App | *Spring Boot, MySQL, RDS, Angular* — Mar 2025 – May 2025
- Developed a full-stack web application for student feedback using Angular (frontend) and Spring Boot (backend), integrating RESTful APIs, JPA/Hibernate, and Amazon RDS MySQL for secure and scalable data management
- Built and deployed a **CI/CD pipeline with GitHub and Jenkins** for automated build, testing, containerization, and **Kubernetes-based deployment via Rancher**, ensuring high availability with **3+** running pods and embedding security best practices (encrypted data storage, role-based access controls, and secure API endpoints).

TECHNICAL SKILLS & COMMUNITY ENGAGEMENT

Programming Languages: Python, C#, C++, Java, Scala, SQL, JavaScript, Go, R, Jira
Cloud Infrastructure: AWS (EC2, S3, RDS), Azure, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions
Databases: MySQL, NoSQL(Redis, DynamoDB), PostgreSQL, Oracle Database, Microsoft SQL Server
AI/ML: PyTorch, Scikit-learn, Hugging Face, PySpark, NLP, Model Optimization
Certifications: AWS ML Foundations, AWS Cloud Foundations, Building LLM Applications With Prompt Engineering
Rotaract Club: Organized **8+** community initiatives with **200+ participants**, fostering **teamwork, leadership, and inclusivity**.
Medium Publications: Authored technical articles on **ML Engineering, Cloud, and DevOps**, sharing knowledge with a global community.