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Education

Arizona State University

Master of Science in Computer Science

Aug 2025 – Present

Tempe, Arizona

University of Mumbai

Bachelor of Engineering in Artificial Intelligence and Data Science | GPA - 3.72/4.0

Aug 2021 – May 2025

Mumbai, India

Work Experience

App Development Intern | Ayuarogya Saukhyam Foundation

Sept 2024 – Mar 2025

- Developed a cross-platform mobile app using Flutter and Supabase, enabling 500+ rural women to access resources on sustainable menstrual products.
- Designed intuitive UI/UX tailored for low-literacy users, streamlining 15+ app screens to improve accessibility, navigation flow, and inclusivity across diverse demographics.

Python Development Intern | Digibranders Private Limited

Jun 2023 – Aug 2023

- Built and optimized RESTful APIs, boosting system performance by 23% and reducing ERP dashboard response time to 60ms, improving user experience.
- Enhanced PostgreSQL database handling across 15+ tables, ensuring faster queries and smoother data retrieval for client operations.

Projects

Referrly App | PostgreSQL, Render, Flutter, Next.js, ExpressJS

[Link](#)

- Launched a referral-based networking platform with 1,300+ app installs, 3,600+ website visitors, and 200+ monthly active users (MAUs).
- Engineered a scalable cross-platform application using Flutter and PostgreSQL, integrated with a Next.js + ExpressJS web platform, and deployed on Render for cloud-based reliability.

Aqua Trace App | Firebase, MobileNet, Flutter

[Link](#)

- Developed and published an app on the Google Play Store to track water footprints and promote conservation, with 800+ downloads from 50+ countries.
- Curated a dataset with 230+ food items and 30+ activities, enhancing app utility and user engagement.
- Integrated an advanced image recognition model trained on 6,000+ images across 42 classes, using MobileNet CNN for efficient processing and accurate recognition.

Auto Pipeline for EDA | Python, Pandas, Matplotlib, Seaborn

[Link](#)

- Automates analysis of CSV datasets (up to 200MB), generating summaries, categorical distributions, statistics, missing data reports, correlation heatmaps, and scatter plots.
- Reduced manual coding efforts by automating EDA tasks, saving 300-400 lines of code and approximately 3-4 hours of analysis time per project.

Research Publications

ExamAce: Leveraging LLMs and RAG for Intelligent Academic Assistance

Jul 2025

Accepted for Publication in IEEE (ICCCNT 2025)

- Proposed a novel question-answering system using fine-tuned LLMs (Llama 3.1, Llama 2, Mistral) integrated with Retrieval-Augmented Generation (RAG) for accurate academic support.
- Engineered a multi-agent system with open source models, achieving the highest Model Fit score of 0.23 with Llama 3, demonstrating improved accuracy and reliability in academic tasks.

Use of Fine-Tuned LLMs in Engineering Education: Evaluating Answer Quality using Metric-Based Scoring

Sept 2024

Published in International Journal of Engineering Research & Technology

- Optimized LLMs like Llama 3.1, Llama 2, and Mistral to generate high-quality engineering academic content, fine-tuning models on a chapter-wise basis.
- Evaluated model performance using metrics such as ROUGE, Cosine Similarity, and METEOR, with human expert assessments confirming Llama 3 as the top performer.

Technical Skills

Languages: C, C++, Python (NumPy, Pandas, Matplotlib), Dart, JavaScript, SQL, HTML, CSS

Frameworks & Databases: Django, React, Flutter, TensorFlow, Streamlit, PostgreSQL, MongoDB

Tools: Git, GitHub, Postman, Figma, VS Code, Jupyter Notebook

Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Object-Oriented Programming