

ADARSH PRADHAN

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TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, TypeScript, SQL

Frameworks and Tools: React.js, Next.js, Node.js, Flask, TensorFlow, Docker, MYSQL, MongoDB, GitHub Actions

Concepts: RESTful APIs, CI/CD, Machine and Deep Learning, Agile Development, LLMs

EXPERIENCE

Reality AI Lab

Dec 2024 – Present

AI Software Engineer, Remote

- Designed Teachify—an end-to-end online teaching platform using the MERN stack (React, Node.js/Express, MongoDB)—that reduced API response times by 40% and load times by 35%. Scaled the system to support 1,000+ concurrent sessions, resulting in a 30% boost in user engagement.
- Developed a scalable plagiarism detection platform using Python (Flask, scikit-learn's TF-IDF, and cosine similarity) with a MongoDB backend, achieving 92% detection accuracy and reducing processing time by 45% across 1,000+ document comparisons.

Jspiders

Jul 2022 – Jan 2023

Software Developer , Onsite

- Collaborated in a cross-functional team to architect and implement 5+ full-stack projects using the MERN stack and Java, optimizing backend processes to reduce API response times by 40% and system latency by 35%. Spearheaded the integration of CI/CD pipelines and automated testing frameworks, boosting scalability by 30% and maintaining 99.9% uptime.

PROJECTS

AIRA- Artificial Intelligence Research Assistant

- Engineered AIRA—a unified AI research assistant integrating 5 modular features—that reduced document processing time by 40% and achieved 85% query accuracy using free LLMs and vector embeddings.
- Designed for scalability with 99% uptime and support for over 500 concurrent users, optimizing real-time research capabilities in a production environment.

Prepify AI

- Developed a scalable AI-powered career platform using React, Node.js, and Google Generative AI, reducing resume creation time by 40% and boosting interview preparation efficiency by 35%.
- Leveraged multi-dataset fine-tuning and integrated speech synthesis to generate tailored, role-specific interview questions, cutting processing latency by 25%.

Teaching Experience

Paramount Classes

Aug 2024 – Present

CS lecturer

- Founded and led a Computer Science and IT program with a personalized teaching approach, achieving a 100% pass rate while spearheading targeted marketing campaigns that boosted enrollment by 70%, positioning the coaching center among the top three in the region.

Imperial Presidency College

Dec 2023 - Dec 2024

CS lecturer

- Facilitated programming courses for 150+ students, boosting coding confidence by 70% with an interactive curriculum covering computer networks, operating systems, and software development.
- Mentored 30+ students in hands-on, full-stack project-based sessions, leading to 10+ successful software projects per semester.

EDUCATION

Lovely professional University

Masters of Computer Application

Expected: March 2025

Khariar Autonomous College

Bachelors of Computer Science

August 2023

Certificates and Achievements

Meta Front-End Developer , Machine learning & Deep learning , Nvidia GenAI

Inspire Scholarship and Awards (2015 & 2017),