

Adarsh Hegde

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PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, C, SQL
- **Problem-Solving:** Solved 250+ Leetcode Problems
- **Frameworks & Libraries:** Django, Flask, React, Next.js
- **Databases:** PostgreSQL, MongoDB, MySQL
- **Cloud & DevOps:** Microsoft Azure (App Service), Supabase, Docker, Git, GitHub, Postman
- **Data Tools:** Crawl4AI, WebSockets, REST APIs
- **Operating Systems:** Linux (Ubuntu)

PROJECTS

- **FindCheap** GitHub
Automated Price Comparison & Data Integration Tool
 - **Connector Development:** Developed high-performance scraping connectors for Amazon, Flipkart, and eBay, enabling seamless integration and real-time price aggregation.
 - **Metadata Processing:** Implemented advanced data cleaning pipelines using **Crawl4AI** and custom filters to eliminate irrelevant entries, boosting accuracy by 90%.
 - **Tech Stack:** Python, Django, Supabase, Next.js, Crawl4AI, Data Processing Pipelines, OAuth 2.0, JWT
- **ConvoRoom** convoroom.live
AI-Native Real-time Collaborative Chat Platform
 - **AI-Native Development:** Built a multi-user real-time chat platform where AI is integrated into core interactions using **LangChain** for dynamic conversation management and context-aware responses.
 - **Scalable Architecture:** Designed and deployed a fault-tolerant backend using **Django** and **WebSockets** on **Microsoft Azure App Service**, ensuring high availability and performance.
 - **Tech Stack:** Django, React, WebSockets, Azure, LangChain, AI Integration
- **FeedKind (Hackathon Project)** feedkind.adarshhegde.tech
Food Waste Reduction & Supply Chain Platform
 - **Impact-driven Design:** Collaborated in a 24-hour hackathon to create a platform linking vendors and food banks, reducing food waste through intelligent matching.
 - **Backend Features:** Built modules for product expiration tracking, donation scheduling, and logistics coordination.
 - **Tech Stack:** Node.js, React, MongoDB, REST APIs
- **Queryon** GitHub
Secure Research Paper Access Platform
 - **Access Control:** Implemented role-based authentication and authorization using **Supabase**, ensuring secure academic content delivery.
 - **Scalable Metadata Storage:** Designed a PostgreSQL-backed metadata store to manage document indexing and retrieval.
 - **Tech Stack:** Django, Supabase, PostgreSQL, Authentication Systems

EDUCATION

- **AJ Institute of Engineering Technology** Mangalore, India
B.E. in Information Science and Engineering; GPA: 7.5/10 2022 – 2026