

Md Farhan Ansari

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EDUCATION

IILM University, Greater Noida

B.Tech in Computer Science, Specialization in AI & ML

Greater Noida, UP, India

Aug. 2023 – July 2027

PROJECTS

SiftPaper – RAG Research Assistant | *Python, FastAPI, Next.js, LangChain, Qdrant* | [Live](#) | [GitHub](#) Sept. 2026

- Built and deployed an end-to-end RAG system answering natural-language questions across 55+ arXiv AI papers, returning grounded answers with inline citations to the exact source paper and page
- Engineered a two-stage retrieval pipeline – dense vector search over 7,346 embedded chunks in Qdrant, followed by cross-encoder re-ranking to promote the most relevant passages before generation
- Improved retrieval quality by **+37% context precision** (0.51 → 0.70) and **+40% faithfulness** (0.56 → 0.79), measured with RAGAS against a hand-built ground-truth evaluation set
- Took the product prototype → deploy → scale: containerized FastAPI backend on Railway with a responsive Next.js frontend on Vercel, supporting live PDF ingestion and KaTeX math rendering

Clippa – Privacy-First Clipboard Manager | *TypeScript, React, Tailwind CSS, Chrome Extension APIs* | [GitHub](#) Jan. 2026

- Designed and open-sourced a Chrome/Brave clipboard manager that captures copy/cut events along with source metadata (page title, favicon, URL), so every clip remembers where it came from
- Architected a three-part extension: a content script injected into pages to listen for clipboard events, a background service worker managing persistence and a 24-hour auto-cleanup cycle, and a React popup UI
- Built a privacy-first data model using `chrome.storage.local` with zero network calls, telemetry, or external transmission – all clipboard history stays entirely on-device and works fully offline
- Shipped product features including clip pinning, real-time search across content and sources, smart URL detection, and an `Alt+C` keyboard shortcut for instant access

Local-Services Marketplace | *Node.js, Express, MongoDB, ReactJS, TypeScript, JWT, REST APIs* March 2026

- Built a full-stack service-booking platform with role-based access control (Customer / Provider) and JWT authentication – designed API contracts with proper HTTP status codes, input validation, and structured error responses
- Developed 15+ RESTful API endpoints handling the full booking lifecycle (create → confirm → complete → cancel); enforced Mongoose schema validators and middleware guards on every request path

Paytm Clone – Digital Payments Platform | *Node.js, Express, MongoDB, ReactJS, TypeScript* | [GitHub](#) Jan. 2025

- Developed a full-stack payments app with wallet management, peer-to-peer transfers, and transaction history – handling balance validation, insufficient-funds checks, and concurrent transfer integrity
- Built RESTful APIs for signup, login, balance inquiry, and fund transfer; implemented JWT authentication and input sanitization middleware, with clean route/controller/middleware separation

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, Java, SQL (MySQL)

AI/ML: LangChain, RAG, Vector Databases (Qdrant), Hugging Face, sentence-transformers, Prompt Engineering, RAGAS Evaluation

Frontend: ReactJS, Next.js, TypeScript, Tailwind CSS, shadcn/UI, Redux Toolkit, Vite, Axios

Backend: Node.js, Express.js, FastAPI, REST API Design, JWT Authentication, MongoDB, Mongoose, SQL

Tools & DevOps: Git, GitHub, Docker, AWS, Vercel, Railway, Render, Postman, Linux/CLI, Chrome Extension APIs

Concepts: REST API Contracts, Retrieval-Augmented Generation, Error Handling, Database Modeling, OOP, Agile/SDLC

CERTIFICATIONS

AWS Academy Graduate – Generative AI Foundations (AWS) | [Link](#)

AWS Academy Graduate – Machine Learning Foundations (AWS) | [Link](#)

Postman API Fundamentals Student Expert – Postman | [Link](#)

Python Programming with Red Hat (AD141 – RHA) | [Link](#)

Introduction to MongoDB – MongoDB University | [Link](#)

ACHIEVEMENTS

655+ problems solved on LeetCode – Max Rating **1679** | [LeetCode Profile](#)

Pupil on Codeforces – Max Rating **1262** | [Codeforces Profile](#)

2-Star on CodeChef – Max Rating **1500** | [CodeChef Profile](#)