

UTKARSH SAVARN

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EDUCATION

Dr. APJ Abdul Kalam Technical University

Bachelor of Technology in Information Technology — Current CGPA: 7.5/10

2022 – 2026

Ghaziabad, U.P.

TECHNICAL SKILLS

Languages: C++, JavaScript (ES6+), Python, HTML5/CSS3, SQL

MERN Stack: MongoDB, Express.js, React.js (Hooks, Context API), Node.js, RESTful APIs, JWT Authentication

AI/ML & LLM: YOLOv5, OpenCV, Ollama, LangChain, RAG, ChromaDB, FAISS, Pandas, NumPy, Scikit-learn, Streamlit

Tools & Services: Git/GitHub, Postman, Firebase (Firestore, Functions, Hosting), Vercel, Render, VS Code

Styling & UI: Tailwind CSS, Responsive Design, Socket.IO (Real-time communication)

EXPERIENCE

ProX PC

June 2025 – August 2025

Technical Executive Intern

Onsite

- Engineered a **real-time object detection system** using **YOLOv5** and **Ollama LLaMA Vision**, processing **RTSP camera feeds** with 50%+ confidence threshold, storing data in **MongoDB**, and displaying live updates via **Socket.IO** on a MERN stack dashboard
- **GitHub:** Object Detection Dashboard
- Developed **Travel Mitra**, an AI travel assistant using **Streamlit** and **LLaMA 3 (8B)**, generating India-focused budget itineraries with **JSON Lines** for efficient data handling
- **GitHub:** [Travel Mitra](#)

PROJECTS

RecruiterV - A Recruitment Platform | *React, Node.js, Express, Firebase, Firestore*

2025

- Built full-stack recruitment platform with **Firebase Firestore** for real-time candidate tracking, **Cloud Functions** for backend logic, and **Firebase Hosting** for deployment, handling 100+ concurrent users
- Implemented **automated resume parsing**, job matching algorithms, and real-time notifications using **Firebase Realtime Database** with optimized query performance for scalability
- **Live:** [recruiterv.com](#)

JEECompass - AI Mentor Assistant | *React, Node.js, MongoDB, LangChain, RAG, FAISS, Gemini API*

2025

- Developed AI-powered educational platform using **RAG architecture** with **FAISS vector database** for semantic search across 10,000+ JEE questions, reducing mentor response time by 70%
- Integrated **LangChain** with custom prompt engineering for context-aware answers, achieving 85% accuracy in math problem explanations
- **GitHub:** [JeeCompass](#)

HistoryBiharRAG - Historical Q&A System | *Python, LangChain, ChromaDB, RAG, Streamlit, Gemini API*

2025

- Built domain-specific RAG system for Bihar history using **ChromaDB** for vector embeddings and **LangChain** for retrieval, processing 500+ historical documents with semantic search capabilities
- Deployed interactive web interface with **Streamlit**, enabling natural language queries with source attribution and confidence scores

Cold Email Generator | *Python, Gemini API, LangChain, Pandas*

2025

- Automated personalized cold email generation tool processing CSV data with **LangChain** and **GPT-based models**, reducing manual outreach time by 90% with customizable templates and bulk export
- **GitHub:** [ColdEmailGenerator](#)

Health Mitra | *React.js, Node.js, Express, MongoDB, Multer, Nodemailer*

2025

- Developed patient record management system with **CRUD operations**, image upload via **Multer**, and automated email notifications using **Nodemailer** for appointment reminders
- **GitHub:** [Health Mitra](#)

ACHIEVEMENTS

JEE Main 2022: Secured All India Rank **89,217** among 1 million+ candidates nationwide

YouTube Creator: Manage multi-niche channel with **1,340+** subscribers, creating educational and tech content