

# DOSAPATI KETHAN KIRAN

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## RECENT PROJECTS

### [MyTeacher | AI Education Platform \(Full-Stack\) | 2025–Present](#)

AI Powered learning assistant platform for students and institutions.

- Architected FastAPI backend (flashcards, topic breakdown, explanations, study plans, visual aids, doc-QA, scraping).
- Implemented secure JWT auth (bcrypt, proactive/retro refresh, tiered roles: Free/Premium/Enterprise).
- Integrated MongoDB (users, API keys, conversations, usage) with Pydantic validation and upload controls.
- Built modern React UI (MUI + Tailwind, React Query, protected/public routes).

**Tech:** FastAPI, Python, MongoDB, JWT, WebSockets, OpenAI, PyPDF2, python-docx, BS4, gTTS, React, KaTeX, Postman, Conda/Anaconda, Git/GitHub.

### [Base AI Tool Builder | Full-Stack \(React + FastAPI\) | 2025–Present](#)

Base GenAI platform with reusable core tools, allowing new apps to be built by making small changes.

- Built modular APIs with usage tiering, structured logging, and API key auth.
- Integrated embeddings + GPT for retrieval-augmented Q&A and conversational AI.
- Designed responsive React frontend (mobile-first UI, Markdown/LaTeX support).

**Tech:** FastAPI, Python, MongoDB, JWT, WebSockets, OpenAI, PyPDF2, python-docx, BS4, gTTS, React, KaTeX, Postman, Conda/Anaconda, Git/GitHub.

## PROFESSIONAL EXPERIENCES

### **Founding / AI Engineer | Cornerstone Tech | Chicago, IL | 2025**

- Designed and developed a mobile app where users upload trucking permits and automatically get approved driving routes.
- Extracted route details from permit PDFs and converted them into structured data.
- Created services to generate accurate routes using maps and distance checks.
- Developed backend APIs to process data, handle requests, and manage configurations.
- Generated map links and route visuals for easy use by operations teams.

**Tech:** Python, FastAPI, Google Maps & Directions API, OSRM, Here API, Docling, Docker, Git/GitHub.

### **AI Research Intern | Pace University | New York, NY | 2025**

AI Powered platform for company valuation and business matching

- Built research-grade web-scraping pipelines aggregating business intelligence, leadership data, and risk signals.
- Developed FastAPI microservices with MongoDB persistence, CORS, structured logging, and multi-environment configs.
- Scraped and normalized social + registry data (Instagram, Facebook, Twitter/X, Companies House).
- Applied LLM-assisted extraction to clean/unify datasets, cutting manual effort by 70%.

**Tech:** Python, FastAPI, Playwright, Selenium, BeautifulSoup, PyMuPDF, Tesseract OCR, OpenAI, MongoDB, Slack, Git/GitHub, AWS, CI/CD.

### **Data Engineer Associate (AI Engineer) | Datalabs Corporation | Hyderabad, India | 2024**

- Built a generative AI agent that reduced news aggregation pipeline latency to 19s.
- Developed ingestion framework auto-deploying bots from uploaded Excel datasets.
- Added audit logs for full traceability & rapid reprocessing.

**Tech:** Python, FastAPI, Pandas, Selenium, OpenAI API, Docker, MongoDB, Jira, Bitbucket, Git/GitHub, Postman, Anaconda, AWS.

## Machine Learning Intern | Skil.AI | Visakhapatnam, India | 2024

- Developed AI model for address verification (100% internal accuracy).
- Built RAG-based document Q&A assistant for PDFs.
- Deployed generative AI agents diagnosing front-end issues, speeding resolution by 50%.
- Contributed to the development of a no-code chatbot builder (OpenAPI ingestion + multi-agent workflows).

**Tech:** Python, FastAPI, React, OpenAI API, embeddings, vector DB, Docker, Git/GitHub, Bitbucket, Jira, Postman, Anaconda/Conda, Ubuntu, AWS.

## LEADERSHIP

### Founder | D Studios

- Built AI agent powering @filmicharmony, automating OTT content aggregation (cut manual effort by 70%).
- Led a content team producing viral short-form video content (anime edits, OTT news).
- Created an automation pipeline turning release dates into voice-over videos with subtitles.

**Tech:** Python, REST APIs, scraping, automation, video generation, Git/GitHub.

## ACADEMIC PROJECTS

- **AI Trainer (2022):** Analyzed workout videos for exercise form, giving live corrections (**85% accuracy**).
- **TeachMate (2023–2024):** Built APIs for document parsing, grading, handwriting recognition, and quizzes with auto-scoring.

## EXTERNAL PROJECTS

### Figma Agents UI - Contributor (React/Node/AI) | 2025

AI-powered design-to-code platform transforming Figma designs into production-ready React components

- Helped to extend the system (design-diff, code search, changes, GitOps, Jira) to generate React + Tailwind code with 60% faster delivery.
- Designed validation workflows (manual tests + Postman flows) ensuring 100% compatibility.

**Tech:** Node.js, React + Vite, Tailwind, WebSockets/SSE, OpenAI, Figma API, Jira API, Bitbucket, Git/GitHub.

## EDUCATION

**PACE University, Seidenberg School of CSIS | MS Data Science | New York, NY | 2026 | CGPA: 3.95 / 4.0**

**REVA University | BTech, Computer Science (AI & ML) | Bangalore, India | 2024 | GPA: 8.78 / 10.0**

## TECHNICAL SKILLS

- Languages: Python, JavaScript
- Frameworks: FastAPI, React, Node.js, TensorFlow, PyTorch, Scikit-Learn
- Databases: MongoDB, PostgreSQL, SQL
- Libraries/Tools: Pandas, Transformers, Streamlit, Gradio
- Other: JWT, Docker, Git/GitHub, REST APIs, RAG, embeddings

## ADDITIONAL

- **Relevant Coursework:** Generative & Multi-Agent AI, Web Scraping, ML, API Development, Prompt Engineering.
- **Languages:** English, Telugu, Hindi, Kannada