

# ARUSH DIXIT

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**About** — Motivated and detail-oriented third-year B.E. student in Information Technology at IET DAVV, also pursuing a B.S. in Data Science from IIT Madras. Skilled in full-stack web development, data science, and AI applications. Passionate about building responsive applications, optimizing performance, and leveraging emerging technologies to deliver impactful digital solutions. Actively seeking internship opportunities to apply technical and analytical skills in real-world environments.

## Skills

<b>Scraping &amp; Evasion:</b>	Python, Selenium,undetected-chromedriver, BeautifulSoup
<b>AI &amp; Automation:</b>	LLMs (GPT, Claude), RAG, NLP, Machine Learning, Deep Learning
<b>Frontend:</b>	HTML, CSS, JavaScript, React, Vue.js, Responsive Design, UI/UX Principles
<b>Data Processing:</b>	Pandas, NumPy, SQL, MongoDB, VectorDB
<b>Deployment:</b>	Docker, AWS, FastAPI, Flask, ngrok, Streamlit
<b>Programming:</b>	Python, JavaScript, SQL

## Experience

### Royal IT Services

July 2025-Present

Indore, Madhya Pradesh, India

- Contributed to backend architecture by writing clean and scalable code, optimizing database operations.
- Participated in client discussions to gather requirements, plan project structure, and deliver tailored solutions.
- Developed and maintained full-stack web applications for clients using **React, Node.js, Express.js, and MongoDB**.
- Built an LLM-powered RAG agent that extracts accurate answers from user-uploaded documents (like PDFs) with millions of tokens using semantic search.

## Projects

### Terminus-AI Chat Terminal (MERN)

- Developed an AI chatbot integrating Ollama DeepSeek for real-time conversational responses.
- Led end-to-end full-Stack development, encompassing secured RESTful APIs, MongoDB storage, responsive react UI.
- Developed automated report generation system producing customized recruitment analytics
- By integrated terminus AI chatbot into customer support portal, resulting in 60% of customer queries being resolved without human intervention, and reducing support ticket resolution time.

### LLM RAG Agent — IIT Madras Project

- Used IIT Madras-provided academic datasets (e.g., lecture schedules, course information) to simulate real-world student queries.
- Implemented semantic search over chunked documents using vector embeddings for accurate and fast retrieval.
- Enabled real-time natural language querying for documents with millions of tokens using tools like FAISS and OpenAI embeddings.

### Spotify Clone

- Developed a fully functional Spotify clone with real-time music playback, custom audio player, and playlist management features.
- Enhanced responsiveness with advanced media queries, achieving better cross-device performance than the official Spotify web version.
- Implemented smooth UI/UX using HTML, CSS, and JavaScript, ensuring seamless transitions and fluid navigation.

## Education

### Institute of Engineering & Technology, DAVV (2023-27)

2023-2027

Bachelor of Technology in Information Technology

JEE Mains 2023: 97.6 Percentile || CurrentGPA: 8.5

### Indian Institute of Technology, Madras

BS Degree in Data Science

CurrentGPA: 8

## ***Certifications***

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- **Oracle: Database for Developers** - *Oracle*
- **Full Stack Development**- *Udemy (Jan 2025)*
- **Foundations in Data Science**- *IIT Madras*