

Jayesh Bansal

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Computer Science student who enjoys designing backend systems, writing code to automate tasks, and building tools that solve everyday problems.

Education

Indian Institute of Technology Madras, Madras, India

Bachelor of Science in Data Science and Applications (Online)

Jan 2024 – Dec 2027

([Transcript](#)) CGPA: 8.3

SR University, Telangana, India

Bachelor of Technology in Computer Science

Oct 2022 – May 2026

([Transcript](#)) CGPA: 9.5

Projects

FastAPI Automation Tool - Python, FastAPI, OpenAI GPT ([GitHub](#))

Feb 2025 - Feb 2025

- Devised an AI-powered automation system using FastAPI, automating 80% of tasks and cutting execution time from 10 minutes to 5 seconds per task and integrated OpenAI GPT for natural language task classification, enhancing AI-driven automation in a production environment.
- Constructed modular API endpoint improving efficiency by 60% and strengthened security by restricting access to specific directories, blocking 95% of unauthorized modification attempts.

Web Data Extraction & Processing Tool - Python, Web Scraping, File Parsing ([Github](#))

Dec 2024 - Jan 2025

- Designed an automated data pipeline using Python reducing manual data entry by 15 hours per week built a resilient web scraping engine with adaptive request headers, increasing scraping success rate from 70% to 95%.
- Created an efficient file parsing system to retrieve structured data, improving processing speed by 40%.and optimized asynchronous requests and randomized delays, enhancing scraper performance while preventing IP bans.
- Applied transformation techniques to clean and normalize 50,000+ extracted product attributes monthly

Multi-Format File Scanner - Python, Regex, OpenPyXL, PyPDF ([GitHub](#))

Dec 2024 - Jan 2025

- Developed a Python-based file scanner to search for keywords across multiple document formats, scanning 5,000+ files in under 10 minutes and applied Regex to efficiently locate and highlight search terms within large documents.
- Engineered a multi-threaded file scanning approach to boost search speed by 30% and incorporated OpenPyXL and PyPDF for seamless spreadsheet and PDF content extraction.
- Built a CLI-based progress tracker, reducing processing time by 30% for scanning 10,000+ files per batch and enhanced error handling and performance optimization for large-scale file processing.

Skills

- **Languages:** Python, C++, Java, Ruby, C
- **AI/ML:** OpenAI GPT, NLP, Embeddings
- **Web/API:** HTML, CSS, JS, FastAPI, REST API
- **Database:** SQL, SQLite, PLSQL
- **Tools:** Git, GitHub, Postman, VS Code, Uvicorn
- **Coursework:** DSA, OS, CN, DBMS, NLP

Achievements and Certifications

Achievements

- Smart Interviews - Smart Coder, achieved Bronze Certification with a Global Rank of 16646/40531. ([Certificate](#))
- Secured a position among the top-ranked participants at the SIH 2024 Internal Hackathon; focused on innovative coding solutions that fostered teamwork and enhanced collaborative skills within a competitive environment. ([Certificate](#))
- Outstanding academic performance in the IV and V semester of my B.Tech in Computer Science and Engineering. Ranked in the top 10% of the class of 2022-26 ([Certificate](#))

Certifications

- **Machine Learning Techniques using Numpy** ([Verify](#)) April 2025
- **Theory of Computation** ([Verify](#)) October 2024
- **Software Models Using UML** ([Verify](#)) March 2024
- **Microsoft Azure Fundamentals** ([Verify](#)) March 2024