

# Jayesh Bansal

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*Backend Developer & AI Automation Specialist who enjoys designing backend system, writing code to automate tasks, and building tools that solve everyday problems.*

## Education

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### 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: 9.35*

## Experience

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### Software Development Intern (Remote) (NetCreativeMind Pvt Ltd.)

(Aug 2025 – Present)

- Selected for a paid remote internship focused on Java, Spring Boot, PostgreSQL, and full-stack web development.
- Responsibilities include designing and implementing REST APIs, database integration, and user-facing HTML forms.
- Currently onboarding and contributing to project setup with exposure to Spring Data JPA, Maven, and modern development workflows.

### Backend + AI (JPMorgan Chase & Co. - Code for Good)

June 2025

- Trained and deployed a lightweight AI model in Python and developed its FastAPI endpoints for predictions and integrations and received positive feedback from JPMorgan mentors for backend design and code efficiency.
- Collaborated in a cross-functional team to develop an AI-powered solution for NGO partner “Pradhan,” addressing issues related to women farmers.
- Ensured real-time communication by integrating with a Node.js frontend system built by a teammate and delivered a fully functional prototype within 24 hours.

### Backend Developer & AI Automation Specialist - Freelance/Personal Projects

Jan 2025 - Present

- Designed and deployed backend tools to automate file processing and supplier data extraction for a small business.
- Built an async web scraping pipeline using delay strategies to collect data from 10+ supplier websites and improved scraping accuracy to 95% and automated monthly data extraction workflows, saving 15 hours/week of manual data collection.
- Built multithreaded Python scripts to parse 10K+ scanned PDF invoices using regex and PyPDF, converting them into structured formats (CSV, Excel).

## Projects

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

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
- 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

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- **Languages:** Python, C++, Java, C, JavaScript
- **Tools:** Git, GitHub, Postman, VS Code, Uvicorn, Docker, CLI
- **Web/API:** HTML, CSS, JS, React.js, Vue.js, Node.js, Express.js, Next.js, REST API
- **Database:** SQL, MySQL, SQLite, PLSQL, MongoDB, PostgreSQL
- **AI/ML:** OpenAI GPT, NLP, Machine Learning, Pytorch, Deep Learning, GenAI, Tensorflow, Neural Networks
- **Frameworks:** FastAPI, Flask, Django, SpringBoot
- **Coursework:** DSA, OS, CN, DBMS, Software Engineering
- **Cloud/DevOps:** AWS, Google Cloud, Microsoft Azure, Vercel, Docker, Ngrok, Netlify

## Achievements and Certifications

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### 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