Girish Kumar Joshi

Pune, India | gj2615059@gmail.com | LinkedIn | GitHub

PROFESSIONAL SUMMARY

AI/ML Engineer specializing in Generative AI, multi-agent systems, and data-driven automation. Built an AI-powered drug discovery platform integrating GPT-4, RDKit, and large-scale bioactivity databases. Strong foundation in machine learning, statistical modeling, and scalable AI workflows.

EDUCATION

Zeal College of Engineering and Research — Pune, India
Bachelor of Engineering in Artificial Intelligence & Data Science — *Aug 2022 – May 2026*

TECHNICAL SKILLS

Programming: Python, SQL
AI/ML: PyTorch, TensorFlow, Scikit-learn, HuggingFace, LangChain
Generative AI: GPT, API, Multi-Agent Systems, Prompt Engineering
Data Science: Pandas, NumPy, Matplotlib, Seaborn, Statistical Analysis
Cheminformatics: RDKit, Molecular Property Prediction, SMILES
Tools: Git, Jupyter, VS Code, REST APIs, Web Scraping, MySQL

PROJECTS

AI Drug Discovery System – Multi-Agent Research Platform — Dec 2025

- Engineered a GPT-4 powered multi-agent architecture (Coordinator, Biology, Chemistry agents) to automate target identification and compound screening workflows.
- Integrated Open Targets and ChEMBL databases via REST APIs to analyze 2M+ bioactive compounds.
- Implemented RDKit-based molecular analysis pipeline for drug-likeness scoring (Lipinski's Rule, QED) and automated compound filtering.
- Developed ADMET property prediction models using PyTorch achieving 85%+ predictive accuracy.
- Reduced compound screening time from weeks to minutes through workflow automation.
- **Tech Stack:** Python, LangChain, GPT-4 API, PyTorch, RDKit, REST APIs

Know Your Rights – Legal Awareness Platform — Jan 2026

- Developed a digital platform simplifying constitutional, consumer, and digital rights for 500+ beta users.
- Designed categorized legal knowledge system with search and FAQ features improving user comprehension.
- Reduced average query resolution time from 30 minutes to under 2 minutes.
- **Tech Stack:** Python, HTML/CSS, JavaScript, MySQL

EXPERIENCE

Data Analyst Intern — Jun 2024 – Aug 2024
Ozibook – EdTech Platform — *Pune, India*

- Conducted competitive analysis identifying 3 product-market gaps influencing roadmap decisions.
- Automated LinkedIn data scraping using BeautifulSoup and Selenium to extract demographic and skill trends.
- Built executive dashboards using Matplotlib and Seaborn to analyze user engagement patterns.
- Translated technical findings into actionable business recommendations for stakeholders.

Sales & Inventory Intern — Jan 2023 – Dec 2023
Pustakwale – Book Retail — *Pune, India*

- Managed inventory analytics for multiple SKUs optimizing stock levels and reducing waste.
- Analyzed purchasing trends to identify top-performing categories and improve turnover rates.
- Worked in a team of 20+ members in a high-volume retail environment.

CERTIFICATIONS

Generative AI with Large Language Models – Coursera

Machine Learning Specialization – Coursera