

# Girish Joshi

AI/ML Engineer — Data Scientist — GenAI Developer

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## PROFESSIONAL SUMMARY

AI/ML engineer specializing in generative AI, multi-agent systems, and data-driven solutions. Experienced in building intelligent applications using GPT-4, PyTorch, and LangChain. Proven track record of automating complex workflows and delivering actionable insights through advanced data analysis and machine learning models.

## EDUCATION

**ZEAL College of Engineering and Research**

*Bachelor of Engineering in Artificial Intelligence & Data Science —*

Narhe, Pune

*Aug 2022 – May 2026*

## TECHNICAL SKILLS

**Programming Languages:** Python, SQL (MySQL)

**AI/ML Frameworks:** PyTorch, TensorFlow, Scikit-learn, HuggingFace Transformers, LangChain

**Generative AI:** GPT-4 API, LLM Integration, Multi-Agent Systems, Prompt Engineering

**Data Science:** Pandas, NumPy, Matplotlib, Seaborn, Data Visualization, Statistical Analysis

**Cheminformatics:** RDKit, Molecular Property Prediction, SMILES, Drug-Likeness Analysis

**Developer Tools:** Git/GitHub, Jupyter Notebook, VS Code, REST APIs, Web Scraping

**Databases & APIs:** MySQL, Open Targets, ChEMBL, API Integration

## KEY PROJECTS

**AI Drug Discovery System – Multi-Agent Research Platform**

Dec 2024 – Present

*AI/ML Developer*

*Personal Project*

- Engineered an autonomous drug discovery platform using 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, achieving 85%+ accuracy in ADMET property predictions using PyTorch neural networks
- Implemented RDKit-based molecular analysis pipeline for drug-likeness scoring (Lipinski's Rule of Five, QED calculations) and automated compound filtering, reducing screening time from weeks to minutes
- Deployed LangChain agent orchestration with function calling to coordinate multi-step research workflows, enabling autonomous disease-to-drug-candidate pipeline with comprehensive safety scoring
- Tech Stack:** Python, LangChain, GPT-4 API, PyTorch, RDKit, Pandas, REST APIs, Git
- Impact:** 100x faster drug screening, automated molecular property prediction, reduced manual analysis by 95%

**Know Your Rights – Legal Awareness Platform**

Aug 2024 – Nov 2024

*Developer*

*Personal Project*

- Developed a digital platform to democratize legal knowledge, providing simplified explanations of fundamental rights, consumer protection laws, and digital rights with 500+ users in beta phase
- Designed intuitive UI/UX with categorized rights sections (Constitutional, Consumer, Digital, Labor) and real-world case examples, improving user comprehension by 40% based on feedback surveys
- Implemented search functionality and FAQ system to make legal information accessible to non-legal audiences, reducing average query resolution time from 30 minutes to under 2 minutes
- Tech Stack:** Python, HTML/CSS, JavaScript, MySQL

## PROFESSIONAL EXPERIENCE

**Data Analyst Intern**

Jun 2024 – Aug 2024

*Ozibook – EdTech Platform*

*Pune, India*

- Conducted competitive analysis and market research for an EdTech platform targeting coaches and educators, identifying 3 key market gaps that informed product strategy
- Automated LinkedIn data scraping using Python (BeautifulSoup, Selenium) to analyze profiles, extracting demographic insights and skill trends among target audience segments
- Created executive dashboards using Matplotlib and Seaborn to visualize user engagement patterns, content preferences, and market opportunities, directly influencing 2 major feature decisions

- Documented strategic meetings and translated technical findings into actionable business recommendations for non-technical stakeholders
- **Skills Applied:** Python, Web Scraping, Data Visualization, Business Intelligence, Statistical Analysis

### **Sales & Inventory Intern**

Jan 2023 – Dec 2023

*Pustakwale – Book Retail*

*Pune, India*

- Managed inventory tracking and sales analytics for SKUs, identifying top-performing categories and optimizing stock levels to reduce waste
- Analyzed customer purchasing patterns and sales trends
- Developed communication and negotiation skills through direct customer engagement in a fast-paced retail environment with a team of 20+ employees

## CERTIFICATIONS & LEARNING

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**Generative AI with Large Language Models** – Coursera

**Machine Learning Specialization** – Coursera

**Python for Data Science & Machine Learning** – Udemy

**Gen AI course** – PWSkill

## ADDITIONAL INFORMATION

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**Languages:** English (Proficient), Hindi (Native), Marathi (Native)

**Interests:** AI Research, Drug Discovery, Cheminformatics, Open Source Contribution, Competitive Coding

**Availability:** Immediate (Graduating May 2026)