

GirishKumar Joshi

AI/ML Engineer

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PROFESSIONAL SUMMARY

AI/ML engineer experienced in generative AI, multi-agent systems, and data-driven solutions. Experienced in building intelligent applications using GPT, FastAPI, 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

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 2025 – 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:** so much faster drug screening, automated molecular property prediction, reduced manual analysis

Know Your Rights – Legal Awareness Platform

Jan 2026

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

Generative AI with Large Language Models – Coursera

Machine Learning Specialization – Coursera

ADDITIONAL INFORMATION

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

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

Availability: Immediate (Graduating May 2026)