Jivan Patil

Data Science, Gen AI & Machine Learning Professional

Results-driven Data Scientist specializing in **Generative AI, Machine Learning, and NLP**. Proficient in developing production-ready GenAI applications using LangChain, Hugging Face, and vector databases. Adept at statistical modeling, data visualization, and building LLM-based solutions for real-world business problems. Proven ability to collaborate across teams and deliver data-driven insights in fast-paced environments.

Contact

jeevan983@gmail.com
+91 9028307241

Nashik, Maharashtra (India)

Skills

Programming & Libraries: **Python** (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Keras, TensorFlow), MySQL

Generative AI & LLMs: **LangChain**, OpenAI API, **Hugging Face** Transformers**, Vector Databases**, **Prompt Engineering, RAG** (Retrieval Augmented Generation), Large Language Models (LLM)

Machine Learning & Deep Learning: Random Forest, SVM, K-Nearest Neighbors, Gradient Boosting, XGBoost, Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Natural Language Processing (NLP)

Data Science & Analysis: Statistical Analysis, Data Visualization (Power BI, Matplotlib, Seaborn), Data Cleaning, Feature Engineering

MLOps & Deployment: Git, GitHub, Streamlit, FastAPI, Docker, Microsoft Azure, AWS (S3, Bedrock, Lambda, API Gateway)

Projects

Agentic Q&A System for Analyzing Clinical Trial Data

- Developed an end-to-end LangChain RAG pipeline enable contextual retrieval.
- Integrated agentic architecture with dual tools for natural language Q&A and structured DataFrame analytics.

LLM-based Case Structuring and Seriousness Classification

- Developed an AI-powered pipeline using LLMs to extract structured data from unstructured drug safety narratives.
- Automated seriousness classification and exported results to Excel, **reducing manual effort by 70%**.

Serverless Blog Generator using Amazon Bedrock & AWS Lambda

- Built a serverless blog generator using AWS Lambda, API Gateway, S3 & Bedrock (LLaMA 3).
- Integrated LLM API for real-time GenAI content generation and cloud storage.

Token Attribution Analysis in AI-Generated Text (R&D Project)

- Quantified the contribution of each token in language model outputs using Shapley values and log probabilities.
- Developed methods to enhance interpretability and evaluation of LLM responses at the token level.

Experience

Techdata Solutions
Data Science Intern
(Jul-2024 – Jan-2025)
- Explored applications of **Generative AI** and **LLMs** in **data science** workflows, enhancing automation and analytical depth.
- Worked on real-world datasets, applying data preprocessing, **EDA**, and **machine learning** techniques to solve business problems.
- Built and evaluated **predictive models**, and developed insightful visualizations using **Matplotlib** and **Seaborn** for data-driven decision-making.

Syneos Health
Safety & PV Specialist I
(Oct 2022 – Sep 2023)
- Built **machine learning (ML)** models for classifying and prioritizing adverse event (AE) cases based on narrative and structured data.
- Conducted **data analysis** on adverse event reports, utilizing **Python** to identify trends in pharmacovigilance data, **improving case processing efficiency by 20%**.
- Managed and **cleaned large datasets**, ensuring data integrity
- Collaborated with cross-functional teams to streamline workflows, leveraging data insights to support regulatory compliance.

IQVIA
Operations Specialist I
(June 2021 – Oct 2021)
- Performed **data analysis** on ICSR datasets (PMS & CT cases) using Excel and Python, identifying patterns in adverse events that led to a **15% reduction in duplicate case reporting**.
- Supported triage and data entry processes by developing automated Excel workflows, reducing manual errors by 25%.

Tata Consultancy Services
Senior Process Associate
(Feb 2018 – Jun 2021)
- **Developed classification** models to flag potential data inconsistencies in AE case processing, **reducing overall error rate by 30%** after integration into QA workflows**.**
- **Performed root cause analysis (RCA)** and trend analysis using statistical methods to identify recurring quality issues; findings were translated into actionable process improvements.
- **Led a team** in processing and quality, ensuring compliance with regulatory standards.
- Conducted in-depth data analysis using Python and Excel to identify trends, optimize workflows, and generate weekly quality reports for senior stakeholders.

IKS Health
Data Analyst
(May 2017 – Jan 2018)
- Extracted and interpreted clinical data from medical records to support research, quality improvement, and regulatory
- reporting initiatives.

- Analyzed patient data trends using standardized abstraction tools and provided actionable insights to healthcare teams to improve patient outcomes and compliance.

Education

M. PHARMACY (Pharmaceutics)
S.S.D.J. College of Pharmacy, Chandwad, Nashik (2016)

B. PHARMACY
Loknete Dr. J.D. Pawar college of Pharmacy (Manur) (2014**)**