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| Jivan Patil | | | |
| **Data Science, Gen AI & Machine Learning Professional** | | | Contact |
| 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. | | | [jeevan983@gmail.com](mailto:jeevan983@gmail.com)  +91 9028307241  [Linkedin icon - Free download on Iconfinder](https://www.linkedin.com/in/jeevan-patil-a29b5a123/)  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**

**Praktan Technologies**

Data Scientist

(Jan-2025 – Present)

* Developed **parallel processing** chunk framework for scalable document ingestion and **multi-threaded search** across distributed nodes.
* Implemented **custom retrieval augmentation (RAG)** with fine-grained chunking and semantic filtering to improve generation accuracy by 30%.
* Authored internal **prompt optimization and performance benchmarking suite** to evaluate multi-model response consistency.

**Syneos Health**

Safety & PV Specialist I

(Oct 2022 – Sep 2023)

* Built **Agentic RAG** **Generative** applications enhancing automation and analytical depth.
* Built **machine learning (ML)** models for classifying and prioritizing adverse event (AE) cases based on narrative and structured data.
* 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)

* Built classification models on ICSR datasets (PMS & CT cases) for identifying patterns in adverse events that led to a **15% reduction in duplicate case reporting**.
* Supported triage and data entry processes by developing automated workflows, reducing manual errors by 25%.

**Tata Consultancy Services**

Senior Process Associate

(Feb 2018 – Jun 2021)

* **Developed classification machine learning** 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**)**