

HARIVADAN KILAMBI

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Education

- **Bachelor of Technology in Computer Science and Engineering (Data Science)**

(2021-2025)

Sreyas Institute of Engineering and Technology, Hyderabad (JNTUH)

Projects

HR Analytics- Employee Attrition Prediction

Tools: Python, Pandas, Scikit-learn, Matplotlib, Seaborn

- Analysed a dataset of 4,000+ employee records to identify key factors influencing employee turnover. Performed data cleaning, feature engineering, and exploratory data analysis to uncover trends.
- Built classification models (Random Forest, Logistic Regression) achieving up to 0.86 accuracy in predicting attrition.
- Visualized insights using heatmaps, bar plots, and decision trees to communicate findings to non-technical stakeholders.
- Applied techniques like label encoding, class balancing, and cross-validation to improve model performance.

AI for Marketing

Tools: Python, LangChain, Streamlit, Google Generative AI(Gemini), Streamlit for API keys

- It is a streamlined web app that helps startups, businesses, and marketers create high-converting slogans, ad copy, and campaign ideas in seconds. Powered by LangChain for advanced prompt orchestration and Streamlit for a fast, intuitive UI.
- Gets results in formats suitable for social media, email marketing, web banners, and more.
- An API key is loaded from Streamlit secrets. A custom wrapper around Gemini is built by extending `langchain.llms.base.LLM`.
- LangChain's LLMChain is used to call Gemini and return results.

Agentic RAG Chatbot for Multi-Format Document QA using Model Context Protocol

Tools: Python, Streamlit, Google Gemini API, RAG, MCP, NLP, FAISS, Sentence-transformers, pandas

- Built a multi-agent Retrieval-Augmented Generation (RAG) chatbot using Model Context Protocol (MCP), FAISS vector store, and Google Gemini API.
- Implemented document ingestion pipeline supporting PDF, DOCX, PPTX, CSV, TXT, and Markdown with semantic chunking for optimal retrieval.
- Designed IngestionAgent, RetrievalAgent, and LLMResponseAgent for modular, scalable architecture, enabling efficient message passing between agents.
- Integrated Streamlit UI for real-time document upload, search, and conversational Q&A with context-aware responses.

AI Powered HR Analytics and Career Pathing Solution

Tools: Python, Streamlit, Pandas, Scikit-learn

- Developed a proof-of-concept AI solution to predict employee performance using a Random Forest model and visualize career paths using a Markov chain.
- Engineered a full-stack, proof-of-concept AI solution for HR analytics, demonstrating the potential for predicting employee performance, recommending training, and visualizing career paths.
- Engineered a user-friendly, interactive dashboard with Streamlit to present key insights and model outputs.
- Structured the repository with industry best practices for easy deployment and future integration with enterprise HR systems.

Work Experience

AI Engineer Intern (03/2025-06/2025)

Workcohol (Remote)

- Developed AI-driven solutions for predictive analytics and natural language processing using Python and Tensorflow.
 - Built and fine-tuned machine learning models with scikit-learn for real-world deployment scenarios.
 - Engineered AI applications using LangChain and Gemini APIs for internal tools and client-facing solutions.
 - Developed interactive Streamlit dashboards for AI-generated marketing content and real-time model demos.
 - Gained hands-on experience with key Python libraries such as **NumPy**, **Pandas**, **Matplotlib**, **scikit-learn**, and **TensorFlow** in developing end-to-end ML solutions.
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Technical Skills and Interests

- Programming languages: Python, C, R programming
- Libraries and Frameworks: TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, LangChain, Hugging Face, Django, NLTK, Sentence Transformers, Streamlit, python-docx, python-pptx, PyPDF2
- LLMs and APIs: Google Gemini API, GPT, MCP, Claude, LLaMA,
- Database and Tools: MySQL, PostgreSQL, SQL, FAISS, Jupyter Notebook, Git, GitHub
- Big Data Technologies: Hadoop, Hive, Apache Spark, Kafka
- Visualization: Seaborn, Matplotlib, Power BI, Tableau
- Other Skills: Machine Learning, Generative AI, Natural Language Processing (NLP), Retrieval Augmented Generation (RAG), Multi-Agent Systems, Semantic Search

Continuous Learning: Expanding my knowledge in AI by completing specialized courses and regularly following the latest research papers and trends, with strong skills in data analysis, machine learning, and visualization. Seeking real-world experience to apply and grow technical and analytical skills in a professional setting.

Certifications:

- Power BI certification from Microsoft
- Few certifications on Machine Learning from AWS (training and certifications)
- Certificate on AI from Eduversity
- Complete Python developer certificate from Udemy
- Oracle Cloud Infrastructure Generative AI Professional certificate from Oracle
- Prompt Engineering Certificate from Deeplearning.AI

Declaration: I hereby declare that the details and information given are complete and true to the best of my knowledge.