

Venkata Sravya Telanakula

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SUMMARY

Computer Science graduate with 2+ years of AI/ML experience in Large Language Models, RAG systems, and predictive analytics. Built production-ready AI applications including LLM chatbots and document Q&A systems, achieving 40% operational downtime reduction. Proficient in Python, LangChain, OpenAI APIs, vector databases, and ML frameworks with expertise in prompt engineering and semantic search. Proven ability to develop end-to-end ML pipelines and translate business requirements into scalable AI solutions.

WORK EXPERIENCE

Capgemini, Pune

Dec 2024 – Present

AI Engineer

- Trained in machine learning, prompt engineering and .Net and Angular.
- Developed a chatbot using retrieval-augmented generation to answer queries from internal documents and web articles. Integrated LangChain, FAISS, and GPT-4 for grounded, context-aware responses via Streamlit.
- Built a PDF-based Q&A system using Sentence Transformers, ChromaDB, and GPT-4 to extract and semantically retrieve answers. Implemented with FastAPI, LangChain, PyMuPDF, and HuggingFace embeddings.

RealPage India Private Limited, Hyderabad

Dec 2023 – Dec 2024

Intern

- Automated agent evaluation using Smartsheets and dashboards for performance insights.
- Developed a Power Apps portal for interns to manage tasks, feedback, and KPIs.
- Built a Playwright-based web scraper to extract 300+ property listings weekly.
- Tools used: JavaScript, Power Apps, Power Automate, Smartsheets, MySQL.

Tata Advanced Systems Limited, Hyderabad

Dec 2022 – Jun 2023

Data Analyst Intern

- Built a predictive model to forecast CNC machine failures, reducing downtime by 40%.
- Analyzed 45K+ operational records, improving maintenance scheduling by 30%.
- Evaluated models with metrics: accuracy, precision, recall, F1-score.
- Tools: Python, NumPy, SQL, XGBoost, LightGBM, Flask, ARIMA, RandomForest.

EDUCATION

MLR Institute of Technology, Hyderabad

B.Tech in Computer Science and Data Science

Sept 2020 – Jun 2024

CGPA: 8.5/10

SKILLS

Languages: Java, Python, SQL, JavaScript, Angular, HTML, CSS, C#

Technologies & Tools: NumPy, Pandas, Matplotlib, Flask, Machine Learning, Data Analysis, PowerBI, Git, .Net, LLM's, RAG, Prompt Engineering, Scikit-learn, Docker, Mongo DB

PROJECT WORK

- **CNC Machine Failure Prediction (2024):** Developed LightGBM model to predict CNC machine failures, reducing downtime by 20%. Technologies: Python, SQL, Machine Learning.
- **Twitter Sentiment Analysis for Election Prediction (2023):** Built sentiment analysis model to predict election outcomes with 85% accuracy using Twitter data. Technologies: Python, TextBlob, NLP.
- **AI-Powered FAQ Chatbot with RAG (2024):** Developed RAG-based chatbot using GPT-4 for answering questions from internal documents and PDFs. Technologies: LangChain, OpenAI, FAISS, Streamlit.
- **Smart Document Q&A System (2025):** Built PDF question-answering system with semantic retrieval using Sentence Transformers and ChromaDB. Technologies: Python, FastAPI, LangChain, HuggingFace.

AWARDS AND CERTIFICATES

- **Volunteer at NGO (Service To Mankind):** Helping and supporting underprivileged people. Developed skills in teamwork, communication, and project management while promoting social welfare.
- Data Analytics With Python on NPTEL
- Introduction to Data Science on Cisco