Balaji Bhargavarao

Data Scientist

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Professional Summary

Data Scientist with 1.5 years of experience building data-driven solutions using Python, SQL, Machine Learning, and NLP. Skilled in predictive analytics and time-series analysis, with experience developing scalable data pipelines and extracting actionable insights from large datasets. Focused on delivering real business impact and improving operational efficiency through AI and automation.

Skills

Tools & Technologies

- Predictive Analytics
- FastAPI

Frameworks & Libraries

- Natural Language Processing (NLP)

Tools

- Regression, Classification & Clustering

Work Experience

Data Scientist

2024-08-07 - Present

Impelox Technology Private Limited • Chennai, India

- Built GenAI-driven workflow automation systems, improving operational efficiency by 35%
- Developed a Gmail-integrated AI agent using Pub/Sub, reducing lead response time by 40%
- Created conversational LLM agents to automate lead handling and rescheduling, increasing appointment adherence by 25%
- Optimized data pipelines and ML models, reducing workflow failure rates by 30%
- Collaborated with engineering and product teams to deploy scalable AI features
- Built a predictive car auction pricing model, improving bid price accuracy by 20%
- Automated resume evaluation using GPT scoring, cutting HR screening time by 50%
- Developed a Streamlit UI for real-time resume scoring, improving recruitment workflow efficiency

Education

Bachelor Of Technology in Information Techology

2025-03-28

Velammal Engineering College • Chennai, India

GPA: 7.79

Higher secondry

2021-01

Velammal Vidhyshram • Chennai,Velammal

GPA: 77.6

- Model Evaluation & Optimization (Cross-validation, Hyperparameter tuning)
- SQL
- Langchain
- Langgraph
- RAG
- Model Context Protocol
- Autogen
- LLM

Programming

- Python
- Machine Learning
- Deep Learning
- MongoDB

Projects

HR AGENT

Technologies: Python,RAG,Agentic Development,GenAI,LLM

Built an HR Agent using Python, RAG, and LLM-based Agentic workflows to automate policy lookup, FAQ handling, and employee support, with optimized prompts and vector search for accurate, scalable responses.

AI-Bidding Price Predcition

Technologies: XG-Boost,LLM,Neo4j,streamlit

Developed an AI Bidding Price Prediction system using XG-Boost, LLMs, and Neo4j to analyze historical bids, market conditions, and vendor patterns. Built a Streamlit dashboard for real-time predictions, insights, and bid decision support.

Personal-Assitant

Technologies: XGboost,RAG,MongoDB,GenAI

Developed an AI-based Bidding Price Prediction system using XG-Boost, LLM reasoning, and Neo4j insights to identify key pricing factors, and deployed an interactive Streamlit dashboard for real-time predictions and strategic decision support.

Next Action Agent

Technologies: Python, FastAPI,OpenAI GPT,MongoDB,Vector Store (FAISS),Google Pub/Sub,Streamlit

Developed an AI-driven decision engine that automates the patient journey—from medical history intake to appointment booking and rescheduling. The system predicts the next best action based on user intent and interaction patterns, reducing no-shows and improving patient engagement with minimal manual intervention.