Bala Meghana Shivani S P

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○ https://github.com/BalaMeghanaShivani

Education

San Jose State University	August 2023- December 2025
Master of Science in Statistics	*San Jose, California*
Anurag Group Of Institutions	August 2018- May 2022
Bachelor Of Engineering in Computer Science and Engineering	*Hyderabad, Telangana*

Experience

Accenture — July 2022 – July 2023
Data Engineering Associate — *Hyderabad, Telangana*

- Designed and implemented distributed ETL pipelines for 1M+ telecom records using **Python, and SQL** on **Apache Airflow**, reducing data latency by 20% and improving throughput across multi-node systems.
- Developed a high-performance **forecasting engine** leveraging **Python (XGBoost + LSTM)** to model seasonal demand, increasing prediction accuracy by 18%.
- Created **Tableau** dashboards to analyze telecommunication data and visualize **key performance indicators (KPIs)**. Enhanced decision-making efficiency by 30% for senior management by providing actionable insights into sales performance and customer behavior.
- Collaborated cross-functional teams, including engineers and data scientists, to translate complex business requirements into effective **prompts for a large language model (LLM)**, enhancing prompt accuracy and efficiency, resulting in a 30% faster project completion rate.

Verzeo — May 2020 – July 2020
Machine Learning Engineer Intern — *Hyderabad, Telangana*

- Developed and deployed a **BiLSTM-based deep learning model** using **PyTorch** to predict student dropout risk in online courses, enabling targeted interventions and reducing churn by **22%**.
- Conducted **SQL-based A/B testing** on a 10K-user cohort; validated results with **t-tests** and **Chi-square tests**, resulting in a **15% increase in weekly active users**.

Projects

MindBot — Dual-Agent Journaling & Behavior Analytics | *MCP, NVIDIA NIM (Nemotron)* — Aug 2025 – Sep 2025

- Developed *MindBot*, a dual-agent journaling system integrating an empathetic *Companion* and analytical *Historian* agent using **FastAPI**, **OpenAI GPT-4**, and **Chroma DB**, enabling context-aware reflections, emotion tracking, and long-term conversational memory.
- **Designed modular agent architecture** with role-specific prompts, vector-based memory, and sentiment-analysis tools (**Transformers**, **VADER**) to deliver adaptive, emotionally intelligent dialogues and trend insights, demonstrating applied **GenAI** and **Agentic AI system design**.

TaskForge — AI Team of Specialists Collaboration Simulator | *React 18*, *TypeScript*, *Tailwind* — Sep 2025 – Oct 2025

- **Engineered** *TaskForge*, a full-stack multi-agent collaboration platform built with **Next.js 14**, **TypeScript**, **Tailwind CSS**, and **FastAPI**, integrating **GPT-4 APIs**, **MongoDB Atlas**, and **Chroma DB** to enable role-based agent reasoning, tool-use, and persistent conversational memory.
- **Designed a modular orchestration engine** supporting real-time coordination among autonomous agents (*PM, Researcher, Coder, Reviewer*) through **FastAPI WebSockets** and custom stateful message-passing, showcasing scalable agent communication, context-aware workflow automation, and multi-agent system design.

Technical Skills

Programming Languages: Python, SQL, C++, JavaScript
AI/ML Frameworks: PyTorch, TensorFlow, Scikit-Learn, Keras, Hugging Face Transformers, LangChain, LangGraph
Generative AI & LLMs: GPT-4, LLaMA, Claude, Prompt Engineering, Retrieval-Augmented Generation (RAG), Vector Databases (FAISS, Pinecone, Chroma)
Machine Learning: Regression, Classification, Clustering, Recommender Systems, Anomaly Detection, Optimization
Deep Learning & NLP: CNN, RNN, LSTM, Transformers, Tokenization, Embedding Models
Data Engineering & MLOps: FastAPI, Docker, Kubernetes, AWS (S3, EC2, Lambda), CI/CD (GitHub Actions), Apache Airflow, REST APIs
Data Analysis & Tools: Pandas, NumPy, SQL, Git, Linux, Streamlit
Visualization & BI: Tableau, Power BI, Matplotlib, Seaborn, Recharts, Framer Motion