SPANDANA POTTI

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AI/ML engineer skilled in deep learning, NLP, and cloud-based AI solutions, with experience in building scalable data pipelines, automating workflows, and developing predictive analytics models to drive efficiency and innovation.

EDUCATION

Master of Science in Data Analytics, San Jose State University
Relevant Coursework: Database Systems, Big Data and Technologies, Data Visualization.

SKILLS

Programming Languages	Python, SQL
Database Management Systems	MySQL, Snowflake, Oracle, MongoDB, PostgreSQL
Big Data Technologies	Flink, Kafka, Redis, Airflow, Spark, Elasticsearch, AWS, Azure, Docker, Git
Visualization	Tableau, Power BI, MS Excel, Kibana
AI/ML Frameworks and Libraries	TensorFlow, Keras, Scikit-learn, PyTorch, NLP, RAG, Langchain, MLOps

EXPERIENCE

Data Scientist Intern, Eon Collective, US May 2024 - Aug 2024

- Led the Deltek to MS Teams Connector project to automate data exchange via API calls, reducing manual tasks by 60% and saving 20+ hours weekly.
- Implemented Python-based ChatBots using Streamlit app and LLMs in AWS Bedrock (Llama3, Mistral) to convert Oracle SQL to Snowflake SQL, cutting manual effort by 80% and improving accuracy by 30%.
- Applied Gen AI techniques, such as prompt engineering and LLM validation, to streamline query transformation.

ML Engineer Intern, Coincent, India Sep 2022 - Nov 2022

- Automated data pipelines for cleaning, normalization, and feature extraction, reducing processing time by 30% and efficiently handling datasets with over 80,000 fashion images.
- Used FastAPI and Azure ML to deploy CNN models with RESTful endpoints for real-time image predictions.
- Developed an interactive React dashboard to send prediction requests, display results with confidence scores, and support data annotation for iterative model improvement.

PROJECTS

Multi-agent Collaboration for Software Development Aug 2024 - May 2025

- Developed an autonomous multi-agent collaboration framework using LangChain, LangGraph, and CrewAI, following the MCP and A2A communication patterns to automate software development processes across 5 AI agents.
- Built and maintained a data pipeline using AWS Step Functions to scrape and process thousands of GitHub repositories and HuggingFace datasets, creating a dataset for LLM training, getting a generation success rate of 75%.
- Integrated fine-tuned LLMs (Mistral, Llama) for automated bug detection and code quality assessment, reducing manual review time by 30%.

BARTNet Ridership Forecasting Project Aug 2024 - Dec 2024

- Constructed BARTNet, a deep learning framework with LSTM, Bi-LSTM, TCN, and BERT, boosting forecasting accuracy by 65% (RMSE reduced from 6.14 to 2.10, MAPE cut by 58%) compared to ARIMA.
- Integrated over 5M rows of data, including weather and holidays, enhancing model performance and real-world scenario.

Streamlined Website Insights Feb 2024 - May 2024

- Designed and implemented a real-time data pipeline processing 1M+ events of an e-commerce website using Apache Kafka, Redis, MongoDB, and Apache Flink, reducing data latency by 30%.
- Composed data ingestion and processing workflows using AWS Elasticsearch and Kibana, enabling real-time dashboarding and improving query performance by 10%.

CONFERENCES

Submitted paper titled *"BARTNet: Context-Aware Deep Learning Framework for BART Ridership Forecasting"* to IEEE CAI 2025 (Accepted), January 2025.

CERTIFICATIONS

- AWS Academy Graduate - AWS Academy Cloud Foundations
- Microsoft Certified: Azure AI Fundamentals