ANJANA NITTUR

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Summary

Aspiring Data Scientist with a Master's in Applied Data Analytics, skilled in Python, R, SQL, and machine learning. Experienced in building predictive models and data-driven solutions to support business decisions.

Technical Skills

Programming Languages: Python (PyTorch, TensorFlow), C, C++, R, PySpark, SQL, Java
Software Tools: Apache Spark, Kubernetes, Azure Databricks, Presto, Tableau, Power BI, VS Code
Data Engineering: Parquet, Data Warehousing, ETL design, Data Pipeline Management
Libraries: Pandas, Polars, Numpy, Scikit-learn, GeoPandas, Apache Sedona, Seaborn, Matplotlib, Dask, Folium.
Cloud/Databases: Google Cloud Platform (GCP), PostgreSQL, Snowflake, Kafka, Apache Flink

Work Experience

Berkshire Hathaway Speciality Insurance **June 2024 - August 2024**
Data Science Intern Boston, USA

- Designed and optimized a 1.2 billion record data pipeline in **Azure Databricks and Azure DevOps**, leveraging **SQL, PySpark, Python, and Parquet** for efficient storage, enabling in-stream data processing, seamless data ingestion and management of large-scale datasets.
- Developed custom **ETL** pipelines to normalize large datasets, improving data processing efficiency by 20%, and implemented **machine learning models** to enhance data quality, achieving an 81% match rate for a dataset of 500k records.
- Delivered business insights by visualizing geospatial data in **QGIS**, driving actionable decisions and improving performance by 20%.

Glob S Research Lab , Boston University **January 2024 - May 2024 , September 2024 - Present**
Research Assistant Boston, USA

- Spearheaded the disaster impact analysis using geospatial techniques, geocoding, and reverse-geocoding in **Google Cloud Platform**, improving data accuracy by 85% for a dataset involving multinational firms and their subsidiaries.
- Collaborated with cross-functional teams to accelerate a project on sentiment analysis, delivering insights that informed organizational strategy, for a historical media dataset analyzing **structured and semi-structured data**, leveraging **SQL** in **BigQuery** and Advanced **Excel**, managing over 300k data entries.
- Pioneered a multivariate incomplete dataset,imputed missing data in **RStudio** experimented using Amelia, Mice and missForest packages.

Actalent **August 2021 - August 2023**
Design Engineer, Graduate Engineer Bengaluru, India

- Achieved 95% client satisfaction by developing and customizing discrete event simulation models in **FlexSim**, improving operational efficiency by up to 30% across manufacturing, supply chains, and healthcare facilities.
- Launched a comprehensive **Excel VBA** tool that simplified the macro input process for clients, leading to a 30% reduction in model update errors; this improvement strengthened data integrity and reliability across projects.
- Revamped system optimization and implemented statistical modeling using **C++** and **Flexscript**, providing actionable insights and strategic recommendations based on simulation results for improved decision-making.

Projects

Movie Recommendation System Database **September 2024 - October 2024**

* Developed a PostgreSQL-backed real-time data movie recommendation system managing 45,000+ records, leveraging SQL for efficient data retrieval, aggregation, and trend analysis, resulting in a 70% improvement in data processing speed, created a Tableau dashboard to deliver data-driven insights for informed decision-making.

Face Recognition Based Attendance System **September 2020 - December 2020**

* Directed team in building a contactless attendance system using CNN model and Eigen Faces on Raspberry Pi V4, integrated with an Intel compute stick and OpenCV, achieving 95% accuracy, providing a safe solution during COVID.

Education

Boston University **September 2023 - January 2025**
Master of Science in Applied Data Analytics Boston, USA
Coursework : Machine Learning, Advance Database Management, Data Mining, Web Mining, Data Science with Python

KLE Technological University **August 2017 - August 2021**
Bachelor of Engineering in Automation and Robotics Hubli, India
Coursework : Machine Learning and ROS, OOP and DBMS, Robot Analysis and Design, AI for Autonomous Robots