ANJANA NITTUR

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Education

Boston University   **Sept 2023 - Jan 2025**
Master of Science in Applied Data Analytics   Boston, USA
Coursework: Machine Learning; Adv. DBMS; Data Mining; Web Mining; Data Science with Python

KLE Technological University   **Aug 2017 - Aug 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

Work Experience

Berkshire Hathaway Specialty Insurance   **Jun 2024 - Aug 2024**
Data Science Intern   Boston, USA
- Designed and deployed a scalable ETL pipeline in Azure Databricks with PySpark and SQL for 1.2B+ property data, reducing processing time by 50% and, improving decision-making for underwriters assessing catastrophe risks.
- Engineered and implemented machine learning models (classification, regression) using Python to predict property risks, leveraging 5 diverse datasets and improving risk scoring accuracy by 15%.
- Applied statistical analysis and causal inference to evaluate the relationship between fire incidents and economic losses, using clustering (DBSCAN, k-means) and NLP techniques, accelerating insights for risk mitigation.
- Developed predictive models for catastrophic trends using geospatial data across 50+ global regions, processing 1M+ data points weekly through Databricks dashboard to enhance location-based risk predictions.
- Collaborated with cross-functional teams, including underwriters and actuaries, to integrate predictive models into workflows, reducing manual analysis time.

Glob S Research Lab - Boston University   **Jan 2024 - Present**
Graduate Data Research Assistant   Boston, USA
- Developed time series models (ARIMA, Prophet) to forecast long-term trends, and Gradient Boosting models for customer segmentation, enabling accurate budget planning and optimizing ad spend allocation for better ROI.
- Analyzed over 1M+ social media entries using BigQuery, created 2 Looker dashboards to visualize key metrics and sentiment trends, facilitating A/B testing optimization for multiple subsidiaries, leading to a 25% increase.
- Led a team of 8 researchers, analyzed 1TB+ datasets with R/SQL, and mentored junior members.

Actalent - Engineering & Services   **Aug 2021 - Aug 2023**
Data Analyst (Design Engineer)   Bangalore, India
- Designed predictive simulation models using Python | SQL, achieving results in forecasting operational outcomes.
- Spearheaded predictive simulations using TensorFlow to forecast stock outcomes, driving business impact.
- Orchestrated an automated reporting tool using Excel VBA, optimized data insights for non-technical clients.

Skills

Programming:	Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras), R, Java, PySpark, SQL, Scala, SparkSQL
ML :	Regression, Clustering, NLP, Forecasting, Gradient Boosting, ANOVA, Hypothesis Testing
Tools:	Tableau, Power BI, Excel, Looker Studio, Databricks, Apache Spark, Snowflake, GCP, AWS, Git
Certifications:	Fundamentals of Deep Learning (Nvidia); Databricks Lakehouse Fundamentals

Relevant Projects

Ad-Track Fraud Detection System, Boston University   **Sept 2024 - Dec 2024**
- Built a fraud detection model with Python (pandas, numpy), achieving 92% accuracy and 0.95 AUC-ROC score.
- Engineered features for 100k records, utilizing IP addresses, click times, and device data to amplify precision.
- Optimized data pipelines in Apache Spark, reduced processing time by 30%, integration with analytics systems.

Facial Recognition Based Attendance System, KLE Tech University   **Aug 2020 - Jan 2021**
- Collected 15K face images for a contactless attendance system employing a CNN model, achieving 95% accuracy
- Integrated Raspberry Pi V4, Intel compute stick, TensorFlow, & OpenCV for efficient real-time facial recognition.
- Pioneered a robust database system to manage attendance data, for scalability and reliability during COVID-19.

Publication | Modeling and Simulation of Industrial Robot Using Solid Works, Springer, July 2021