DUSHYANTH REDDY PISATI

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EDUCATION

Yeshiva University, Katz School of Health and Science, NY, USA Jan 2024 - Dec 2025
Masters of Science in Artificial Intelligence **CGPA** 3.8

Indian Institute of Technology(IIT), Tirupati, India Aug 2018 - May 2022
Bachelor of Technology in Electrical Engineering **CGPA** 8.15

WORK EXPERIENCE

LTIMindtree, Hyderabad, Telangana, India Aug 2022 - Dec 2023
Senior Data Engineer

- Developed Python-based ETL pipelines to migrate Informatica workflows, transforming raw S3 data into structured, ML-ready datasets, including CSV, TXT, and Parquet formats.
- Developed Python-based ETL pipelines to transform raw S3 data into clean, structured datasets in CSV, TXT, and Parquet formats, enabling accurate analysis and reporting.
- Designed and implemented automated data replication and validation workflows using Qlik Replicate, Azure MySQL MI, Oracle, and Kafka, ensuring high-quality, consistent datasets for business analytics.
- Built Python-driven data validation tools to detect anomalies, inconsistencies, and missing values, improving dataset accuracy and reliability for reporting and decision-making.
- Optimized data pipelines using AWS services for scalable data processing, reducing runtime and ensuring efficient ingestion for real-time dashboards and analytical reporting.

PROJECTS

Gender Pay and Role Disparity Analysis Using Employee Records

- Built and managed a PostgreSQL database of employee records, enabling structured analysis of salaries, roles, and gender distribution.
- Performed data parsing and cleaning using Excel, Python (pandas, regex), and APIs, standardizing salary, grade, and department information for accurate analysis.
- Developed interactive dashboards using Tableau, Power BI, and Plotly Dash, allowing stakeholders to dynamically explore gender-based pay gaps and role representation across divisions and grades.
- Conducted comparative salary analysis (mean, median) and role distribution analysis to identify divisions with significant gender pay and role disparities, highlighting areas for HR intervention.
- Automated data workflows and visualization pipelines using Python, SQL, and Excel macros, improving efficiency, reproducibility, and reliability of insights.
- Delivered actionable insights to support policy decisions on equitable pay structures and promotion practices, contributing to organizational diversity, inclusion, and workforce planning goals.

Urban Water Quality Analysis & Risk Modeling

- Built an automated ETL pipeline integrating real-time EPA API and NYC datasets, reducing manual data collection time and ensuring a single source of truth for analysis.
- Transformed raw data into actionable insights by performing EDA, identifying that 35% of water quality issues were linked to seasonal nutrient spikes, enabling targeted seasonal monitoring.
- Designed and implemented a relational PostgreSQL database, writing complex queries that decreased report generation time from hours to minutes and improved data accessibility for the team.
- Created an interactive Tableau dashboard tracking key water quality KPIs (e.g., impairment status, pollutant causes) by region.
- Developed a predictive model using logistic regression to flag water bodies at high risk of impairment with 87% accuracy, allowing for proactive infrastructure maintenance.