Ronobir Das

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Skills

ETL and Orchestration: dlt, dbt, Apache Airflow
Databases and Distributed Systems: PostgreSQL, Microsoft SQL Server, DuckDB, Google BigQuery, PySpark, Spark SQL
Data Visualization: SAS JMP, Tibco Spotfire, Tableau

Experience

Business Intelligence Engineer, Keysight Technologies – Santa Rosa, CA   August 2021 – June 2023

- Developed an Industry Segment Tracking dashboard and streamlined data-backed processes that significantly enhanced KPI Reporting and CX visibility for Keysight's leading clients by revenue.
- Partnered with Sales, Product Development, and CX teams to identify and analyze trending issues in customer Out-of-Box experiences. Built a metric tracking dashboard that enabled detailed visibility and improved OBE case resolutions by 45%. Streamlined data pipeline with refined ETL processes.
- Conducted quantitative analysis on the Service Warranty program and identified top customer pain points. Developed program roadmap and implemented the Service Metrics dashboard that empowered both Keysight vendors and customers in tracking product maintenance and service requests. Improved on-time delivery KPIs and maintenance efforts by over 60%.
- Simplified 5G Solution Group's product and testing order process. Built internal ETL tool modules that enabled smooth data movement from Oracle Exadata and Snowflake Source Systems to department-specific SQL Server OLAP Datamart. Developed a dashboard with scalable data visualization capabilities that featured retrieval of live customer feedback and revenue metrics at the product level in Tibco Spotfire.
- Implemented a dashboard with visualization tools serving as a critical component of CVE remediation tracking for Keysight's Cyber IR Group. Developed custom ETL drivers in C# that enabled system remediation data and actions to securely interface with production Oracle & SQL databases.

Manufacturing Quality Engineer, Keysight Technologies – Santa Rosa, CA   August 2018 – August 2021

- Led strict circuit standards and hardware manufacturing specifications that ensure the highest quality and reliability parameters for guaranteed product performance. Conducted EDA and created statistics models for yield analysis that assisted in achieving LEAN manufacturing efficiency certifications.
- Developed CI data reporting and analysis systems, automated yield alert-notifications with R, and streamlined circuit quality RCA processes – reducing the cost of ad-hoc production analysis by 80%.
- Presented actionable quantitative data analysis to support R&D, Product Development, and Reliability Engineering teams with QA and manufacturing recommendations for RF and 5G/6G product lines.

Projects

Airbyte + Motherduck Hackathon Project   github.com/Zesky665/GreenGridGeeks

- Created an End-to-End data application consisting of Extracting from the Finnish Electrical Grid's open APIs using Airbyte, storage in AWS S3, Loading into the Motherduck Datawarehouse, Transformations and Data modeling with dbt, orchestration with GitHub Actions, and data visualizations with Streamlit.
- My role was specifically working on the exploratory analysis, the data model and transformations from the raw layer through the presentation layer using dbt and working with my teammate on multiple visualizations in Streamlit.

Education

University of Nevada, Las Vegas – BS in Electrical Engineering   June 2018

DeepLearning.AI Data Engineering Certificate – Coursera   December 2024
Databricks Apache Spark for Data Analysts – Coursera   May 2024