Nitish Raj

Luxembourg

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EXPERIENCE

AMAZON, Luxembourg, LU

Senior Business Intelligence Engineer, August 2018–Present

- Developed a Python package for extracting, transforming, and modelling data from Amazon's internal API, serving as a foundational data source for advanced analytics initiatives across partner teams.
- Designed and operationalized machine learning models, increasing error identification rates from 6% to 20%, leveraging AWS technologies such as S3, Lambda, Sagemaker Notebook, Model Endpoint, and Batch Transform.
- Architected and implemented a data architecture and warehousing solution for Python (Django) and AWS-based web applications, which improved audit throughput for 200 global auditors by 50% and established a centralized, reliable source of truth for cross-functional teams.
- Optimized the quality audit process through the development of sampling and work allocation solutions, resulting in a 20% reduction in sampling standard deviation and saving three full-time positions.
- Engineered SQL and PySpark-based data pipelines to efficiently track and visualize 100+ KPIs in Tableau, reducing reporting lag by 5 days.
- Awarded for building a framework and KPI to identify false suppressions which recovered more than $7 million in impacted product listings.
- Implemented a multilevel metrics monitoring system based on behavior analysis and established an effective feedback loop that resulted in a 60% reduction in product classification error escalations.
- Partner with the S&OP team to quantify the impact of critical simulated supply chain metric changes and facilitate agile capacity and cost management adjustments while supporting feature launches and improvements in supply chain simulation systems by collaborating with science and engineering teams.
- Contributed to team growth by conducting over 100 technical interviews and providing mentorship to new hires and junior team members.

MU SIGMA Business Solutions, Bangalore, IN

Decision Scientist, July 2015–July 2018

- Created machine learning models for targeted campaigns based on Net Promoter Score (NPS) and customer activity, resulting in a >10% improvement in customer retention.
- Established a data-driven approach for multi-channel attribution (MCA) to identify the most effective channels in the customer journey and optimize budget allocation, which decreased customer acquisition cost by an average of 8%.
- Established the KPIs for pre- and post-value-add analysis, utilizing A/B testing methodology for closed-loop credit card offers, and automated the report in Tableau.
- Designed data architecture and visualizations for tracking spending and transaction metrics, overcoming unstructured and multiple language data challenges in the European market using Qlik and SQL.

EDUCATION

Siddaganga Institute of Technology, Karnataka, IN

Bachelor of Engineering, Computer Science, May 2015

SKILLS

- **Framework/Tools:** RStudio, Docker, Git, dbt, SAS Miner, Terraform, CI/CD
- **Programming:** Python, R, SQL, PySpark, Sparks, SAS
- **Cloud:** AWS (Lambda, EC2, Sagemaker, S3, Redshift, PostgreSQL, MySQL, Glue, Elastic Beanstalk, SNS, CloudWatch, DynamoDB), GCP (BigQuery, Compute Engine, Cloud Storage), Databricks, Snowflake
- **Reporting / Visualization:** Tableau, QuickSight, Qlik, Metabase, Seaborn