TEJAS JAYAPRAKASH

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SKILLS

Python, R, SQL, Excel, Data Analytics, Financial Analytics, Fraud Analytics, KPIs Development, ETL, Data Pipelines, Data Warehousing, Redshift, Big Query, Cassandra, Alteryx, Statistical Modeling, Machine Learning, Looker Studio, Tableau, Looker, GCP, AWS: EC2, DynamoDB, S3.

WORK EXPERIENCE

Cogeco Connexion Inc
Analytics Engineer, Automation Of Tools & Processes
Jun 2022- Present

- Developed a seamless project information management system with automation and contractor assignment, reducing project management time, generating 1.4 million in additional revenue, and facilitating service expansion across Canada and select US states.
- Automated invoice management by consolidating historical and current data, scripting daily updates to GCP's BigQuery database, resulting in $50K per month cost savings and 100% accuracy in identifying duplicate payments using Tableau and Looker Studio.
- Designed and developed a performance analysis solution for employees, utilizing BigQuery to optimize queries, resulting in a 30% increase in appraisal accuracy and 70% reduction in report compilation time.
- Developed an SLA compliance solution for contractors, implementing fines for non-compliance on government projects, resulting in a 25% reduction in contract violations and saving $100K per quarter.
- Achieved significant cost savings of 470K per year by fully automating tasks and establishing strategic KPIs across Network Delivery and Network Expansion teams using app scripts, Google Workspace, BigQuery, SQL, Looker Studio, and Tableau, improving operational efficiency and eliminating the need for manual laborers and contractors.
- Instrumental in setting and upholding data modeling standards, proficiently constructing intricate data pipelines, and ensuring the upkeep of multiple databases.
- Engaged in cross-functional discussions, implemented solutions, developed KPIs, created product documentation, and eliminated costs of redundant inventory and non-revenue-generating resources, resulting in a quarterly savings of 375K for the organization's process improvement plans.

PwC
Data Analyst
Mar 2019- Mar 2020

- Engineered an AI application for the ML team, achieving a 20% resource cost reduction, addressing a Risk alerting system loophole, and mitigating financial crime risk by 15% through unsupervised machine learning integration with rules-based KPIs and Tableau visualization.
- Built an anti-fraud engine and AML analysis tool, employing dynamic rule-based algorithms to detect money laundering and terrorist financing activities, resulting in the identification of $1.5M in financial crimes within six months.
- Collaborated with cross-functional teams to ensure accuracy of data sources & developed data pipelines for real-time model training using Kafka streaming platform for event-driven architecture. This allowed us to create models that were responsive to changing trends and patterns resulting in better detection rates of financial fraud by 25%.

Amazon Development Centre
Transaction Risk Analyst
Mar 2017- Dec 2019

- Developed and implemented performance dashboards using Excel and Tableau to analyze transactional KPIs of Amazon Pay services, resulting in the detection and alerting of over 500 fraudulent activities, reducing potential regulatory fines by millions of dollars.
- Identified various patterns of fraudulent transactions through data analysis and implemented fraud triggering rules to proactively mitigate risks, improving overall fraud detection rate by 30%.
- Designed a proof-of-concept (POC) to automate a process in the existing ticketing system, reducing manual workload by 15 hours per week and increasing operational efficiency by 25%.

INTERNSHIPS

Essex Powerline Corporation
Analytics engineer
Jan 2022- Apr 2022

- Created an automated optimization tool and dashboard leveraging Efficient Frontier and Hierarchical risk parity, yielding a 25% risk reduction, 20% enhanced project prioritization accuracy, and a 30% boost in asset managers' optimal investment selection for the benefit of Engineering, Finance, and Operations Departments.

iNeuron
Data Scientist
Jan 2021- Sep 2021

- Developed an advanced industrial automation solution with Google Coral and the SSD algorithm, enabling real-time detection and immediate shutdown of machines upon detecting individuals in the red zone. Achieved a remarkable 72% mAP and an impressive 46 FPS, ensuring heightened safety and operational efficiency in industrial settings.

EDUCATION

St Clair College
Data Analytics For Business
Graduation Date: Apr 2022

- *Database Systems, Big Data Technologies, Data Warehousing, Data Integration, Data Pipelines, Data Modeling, Data Quality and Governance, Cloud Computing, Distributed Systems, Streaming Data Processing, Data Security, Machine Learning Engineering, DevOps Practices, Scalability and Performance Optimization, Data Visualization, Data Ethics and Privacy.*

Sri Venkateswara College Of Engineering (BE)
Mechanical Engineering
Graduation Date: June 2016

- *Data Analysis, Computational Fluid Dynamics (CFD), Finite Element Analysis (FEA), Machine Learning Applications in Mechanical Engineering, Statistical Methods in Engineering, Experimental Data Analysis, Sensor Data Processing, Control Systems and Data Acquisition, Reliability Engineering and Data Analysis, Design Optimization using Data-driven Techniques.*