KANMANIVISHWAA PARAMASIVAM Data Analyst

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Linkedin Github

Profile

Data Analyst with a Master's in Applied Data Science & Statistics, blending technical depth with strategic insight to turn raw information into clear, high-impact decisions. Skilled in Python, R, SQL, Power BI, Tableau, and AWS, with experience spanning predictive modelling, cloud-based analytics, and data engineering. Known for creating intuitive dashboards, streamlined data flows, and innovative solutions that help organisations see further, move faster, and act smarter. Highly receptive to learning and open to new challenges, with a requirement for UK Skilled Worker visa sponsorship.

PROFESSIONAL EXPERIENCE

Havin Infrastructure Private Limited, Data Analyst 10/2023 – 02/2025 | India

- Developed predictive analytics models using Python, reducing equipment failures by 25% through proactive maintenance planning and resource allocation optimization
- Designed and deployed dynamic Power BI dashboards with advanced DAX measures, enabling a 30% improvement in executive decision-making by visualizing KPIs and forecasting performance metrics
- Built and optimized complex SQL pipelines integrating data from multiple departments, reducing data preparation time by 5% and ensuring high-quality, consistent inputs for reporting
- Engineered scalable ETL workflows using SSIS-like architectures (via AWS Glue and SQL), processing over 1 million records, and enhancing data availability and governance across business units
- Led cross-functional collaboration with engineering teams on $5M bridge project, delivering data-driven insights that accelerated budget approvals by 22% using Agile methodologies
- Implemented automated data quality processes, reducing compliance effort by 30% and ensuring reliable inputs for technical planning and reporting

PROJECTS

Multi-Agent F1 Pit Stop Strategy Simulation | Game Theory & Motorsport Analytics

- Developed intelligent pit stop strategy simulator using Bayesian game theory for F1 teams. Integrated FastF1 API with 202 Spanish Grand Prix data, creating interactive Python dashboard (Dash and Plotly) analyzing 36+ strategy combinations with real-time simulation

Market Analysis in North America

- Led comprehensive market analysis integrating 500K+ SQL records, improving data integrity by 25%. Built interactive dashboards enhancing decision-making efficiency by 0%

Youtube Data Engineering Project

- Built a scalable YouTube analytics pipeline using AWS S3, Athena, Glue, and Lambda to process 1M+ records, improving data retrieval by 60%. Designed a star schema warehouse and interactive dashboards in Power BI, boosting stakeholder engagement by 50% with real-time insights

Analyzing NO2 Release in North Heathrow using Gam, Academics

- Collected data from 2010 to 2021 having influencing climatic factors and information concerning the NO2 release and fit the model with GAM (statistical data modelling in R) to determine the release of NO2 in North Heathrow

Spatial And Temporal Analysis of Temperature in United Kingdom, Academics

- Utilized R and ARIMA modeling for temporal and spatial analysis(geospatial), selecting appropriate methods for data analysis and using the AIC and maximum likelihood values, we search for the most accurate model

SKILLS

Programming Languages: Python (Numpy and pandas) | R language (Plotly, Ggplot2, Dplyr, Tidyr, Stringr) | SQL (MySQL, NoSQL and PostgreSQL) | MATLAB | C and C++

Tools: Jupyter Notebook | RStudio | Advanced MS Excel | Power BI | Tableau | Microsoft Word | GitHub | MS SQL Server | MS PowerPoint and MS Outlook.

Data Handling: ETL, Data Cleaning, Data Integration, Data Warehousing.

Operating Systems: Android, Windows, Linux, and Ios. | Cloud Services: AWS, Snowflake, Oracle (basic knowledge of Cloud)

Core Competencies: Technical capacity planning | Forecasting & predictive analytics | Data-driven decision making | Cross-functional collaboration | Performance metrics development | QA & Validation and Project coordination.

DISSERTATION-ACADEMICS (RESEARCH PROJECT)

Predicting the Virulence of Bacterial Pathogens
Performed comprehensive statistical analysis and built machine learning models using Python, enhancing prediction accuracy. Cleaned and preprocessed data, improving integrity by 95% and reducing errors by 0%. Applied EDA, statistical modeling, and SHAP visualizations to interpret feature importance, leading to 60% more efficient decision-making. Developed regression and classification models, boosting predictive accuracy by 85% and delivering actionable insights faster.

EDUCATION

MSC IN APPLIED DATA SCIENCE AND STATISTICS, 01/2022 – 07/2023 | Exeter
University of Exeter
Grade -2:1
Key Modules: Data Wrangling and Data Cleaning | Data Visualization | Data Modeling and Data Warehousing| Data manipulation
| Exploratory Data Analysis | Statistical Data Modelling using R | Machine Learning using python.

B.E. in ELECTRONICS AND COMMUNICATION ENGINEERING, ANNA UNIVERSITY 08/2016 – 07/2021 | Chennai
Key Modules: VLSI Design| Digital Signal Processing | MATLAB | C++ | C

CERTIFICATIONS

- F1 Data Analysis - Lap Time Simulation -Race Strategy - Competitor Analysis -Udemy – 2024
- Microsoft Power BI Desktop for Business Intelligence - Udemy
- Tata's GenAI Powered Data Analytics on Forage