Abijith Pandath
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SUMMARY

Having graduated with a master's degree in data science from Coventry University and a Level 7 certificate in Strategic Management and Leadership Practice from Chartered Management Institute, I specialize in leveraging data analytics and machine learning to derive actionable business insights. I am looking for data-focused roles in the technology and consulting industries. I have the right to work in the UK.

EDUCATION

Coventry University, United Kingdom, 2023 - 2024

Master of Science in Data Science

|Machine Learning | Big Data Analytics and Data Visualization | Data Management Systems | Information Retrieval |
| Programming for Data Science | Principles of Data Science |

Grade: 2:1 (Achieved)

PROJECTS | LINK

Road Traffic Accidents Analysis Using Machine Learning | LINK

- The project aimed to address the increasing number of road traffic accidents by utilizing machine learning to analyse and predict accident occurrences. The objective was to identify high-risk areas and times to help in developing preventive measures.
- The task involves, exploratory data analysis using Excel and Python on 25000 records of road accident data set, data cleaning, data manipulation, identifying patterns, and developing a predictive model with high accuracy.
- Conducted an in-depth analysis using six machine learning algorithms, including Random Forest, SVM, and Decision Tree. Applied python visualization libraries such as seaborn and matplotlib to identify patterns and high-risk accident zones, focusing on peak hours. Developed and implemented a predictive model with a 90% accuracy rate to forecast road traffic accidents.
- Successfully identified high-risk zones and peak hours, providing actionable insights for traffic management and accident prevention. The predictive model with 90% accuracy enables more effective allocation of resources and implementation of safety measures, potentially reducing the number of road traffic accidents.

Customer Churn Prediction | LINK

- The goal was to develop a predictive model that could identify customers at risk of leaving, thereby enabling the company to implement targeted retention strategies.
- The task required a comprehensive approach involving data analysis, preprocessing, model training, and evaluation to ensure robust and actionable results.
- The action plan handled duplicate entries, addressed missing values, renamed columns for clarity, detected and treated outliers, and removed irrelevant columns to prepare the data for modelling.
- Successfully evaluated the performance of each model using various metrics and visualized the prediction findings. This step involved using Python and machine learning libraries to ensure accurate and interpretable results.

PROFESSIONAL WORK EXPERIENCE

Tata Consultancy Services

Assistant System Engineer Trainee (Jan 2022 – Jan 2023)

- Analysed customer data using SQL and MS Excel to identify patterns and trends, resulting in a 15% improvement in customer retention strategies.
- Developed comprehensive reports and presentations using PowerPoint and Excel to support business decisions, enhancing communication efficiency with both technical and non-technical stakeholders by 20%.
- Streamlined data workflows by automating data extraction and processing tasks with SQL, reducing manual effort by 30% and increasing data processing speed by 25%.
- Collaborated with Product Managers, Business Analysts and Development team to integrate customer feedback into CRM systems and maintaining interactive dashboards to derive actionable insights to inform product decisions.

KEY SKILLS

- **Languages:** English (Fluent), Malayalam (Native), Tamil (Fluent), Hindi (Beginner).
- **Programming Languages & Tools**
  - **Excel:** Pivot Tables and Charts, Formulas, Conditional Formatting, Data Analysis, Data Validation.
  - **Python:** Pandas, NumPy, SciPy, Matplotlib, Scikit-learn, Seaborn, TensorFlow, Stats models.
  - **SQL:** ETL processes, Data Manipulation, Data Aggregation, Data Transformation, Database Management.
  - **Tableau**: Data Visualization, Dashboard Design, Mapping, Performance optimization, Storytelling.

CERTIFICATIONS

- **Chartered Management Institute** - Level 7 Certificate in Strategic Management and Leadership Practice
- **Cisco Networking Academy** - Data Analytics Essentials
- **Amazon Web Services Training and Certifications** - AWS Cloud Practitioner Essentials