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SKILLS

Programming Languages: Python, SQL, R, Java, C++ , Scala, Bash

Libraries and Tools: TensorFlow, Tableau, Power BI, Keras, Pandas, NumPy, scikit-learn, Git/GitHub, Jupyter, SQL, NLTK, D3.js, NoSQL, Selenium, Cucumber, JUnit, TestNG, Jenkins, Postman, LoadRunner, QGIS, AWS, Docker

ML Architectures: CNN, SVM, Decision Tree, Random Forest, Logistic Regression, Transformers (BERT), Large Language Models (LLMs like GPT-3, Llama 2), RNN, LSTM, GAN, GBM

PERSONAL PROJECTS

- **Used-Car Price Prediction using Decision Tree and CNN:** Formulated a hybrid ML model combining CNNs and decision trees to predict used-car prices with 95% accuracy, incorporating image data and market trends. 🔗 [Link](#)
- **Sentiment Analysis on Code-Mixed Data:** Engineered various sentiment analysis models using Natural Language Processing (NLP) techniques for complex, code-mixed data, leveraging BERT, SVM, logistic regression, and large language models (LLM), achieving 90% accuracy. 🔗 [Link](#)
- **Traffic Congestion Mapping using GIS:** Constructed a map of Edinburgh traffic congestion using QGIS and SQL, analyzing bus journey data to support urban planning decisions. 🔗 [Link](#)
- **Coronavirus Visualisation:** Assembled an interactive dashboard utilizing HTML, CSS, JavaScript, and D3.js to track COVID-19 spread and vaccine data, facilitating the analysis of pandemic impacts on a global scale. 🔗 [Link](#)

EXPERIENCE

Test Engineer

Infosys Limited, Kerala, India

July 2019 - December 2022

- Developed advanced SQL queries for data integration, enhancing analysis capabilities by 20% through complex data modelling, ensuring data integrity, and applying strategic data mining techniques.
- Pioneered a predictive effort estimation tool using machine learning algorithms, optimising resource allocation by 24% with advanced predictive analytics, crucial for strategic decisions and operational efficiencies.
- Architected and optimised ETL processes with Python and Pandas, improving data cleaning and preparation, reducing retrieval times by over 30%, and ensuring data quality.
- Created an Excel-based data preparation tool, improving accuracy and reducing setup time by 40%.
- Streamlined 46% of manual tests with Selenium and Cucumber, enhancing data quality and test efficiency.
- Integrated Jenkins for Continuous Integration/Deployment Pipeline (CI/CD), pull requests, code reviews, unit/integration/e2e testing, significantly enhancing project agility and data workflow consistency.
- Led Agile QA team, integrating data-driven decisions and using data visualisation to maintain project alignment.
- Coordinated data-driven communications, enhancing decision-making and project insights.

CERTIFICATIONS AND VIRTUAL INTERNSHIPS

British Airways Data Science Job Simulation

Virtual Internship | Forage | July 2024

Engineered a 94% accurate predictive model for British Airways to analyse customer buying behaviour.

Career Essentials in Data Analysis by Microsoft and LinkedIn

Professional Certificate | LinkedIn | July 2024

Career Essentials in GitHub Professional Certificate

Professional Certificate | LinkedIn | July 2024

PUBLICATION

- Exploring Reproducibility of Human-Labelled Data for Code-Mixed Sentiment Analysis 📄 [ACL Anthology](#)

EDUCATION

Heriot-Watt University

Edinburgh, Scotland, UK

MSc Data Science - Grade: Distinction

January 2023 - July 2024

Kristu Jyoti College Of Management And Technology

Kottayam, Kerala, India

Bachelors in Computer Applications - Grade: 2:1

September 2016 - March 2019

AWARDS

- Awarded the “**Insta Award**” for contributions to the Legacy HighJump project.
- Achieved high accuracy and efficiency in manual and automation tasks, leading to QMO Team winning “**The Overall Winner of North American Testing Award 2021**” and “**Best Overall Testing Project - Retail**”.