Jeremiah Wangaruro
Data Scientist

@ jeremiah.ruro@gmail.com https://jeremiahruro.com/ Dundalk, Co.Louth, Ireland

SUMMARY

Data Scientist with 4 years of experience in Data Engineering, Machine Learning, and Predictive Analytics. Possess strong proficiency in Python and SQL, with additional expertise in JavaScript/TypeScript. Highly interested in programming and continually exploring new APIs and SDKs to expand technical skills and knowledge.

EDUCATION

B.S. Computer Science with Data Science

University College Dublin

📅 2016 - 2020   📍 Dublin, Ireland

GPA **3.43** / 4.2

- Achieved a Second Class Honours Grade 1 (2:1)
- Notable Modules: Data Science in Python, Programming for Big Data, Probability Theory, Project Management and Introduction to Artificial Intelligence

EXPERIENCE

Data Scientist

Civica

📅 02/2022 - 04/2024   📍 Belfast, Ireland

Tourism Ireland: Design and Development of Dynamics 365 (CRM) Reporting Solution.

- **Data Extraction and Analysis:** Leveraged Azure Synapse to extract and analyze Customer Engagement data from Dynamics 365, assessing and enhancing reporting capabilities.
- **Dashboard and Report Development:** Designed interactive dashboards and self-service reports using Power BI to provide insightful data visualizations.
- **Client Collaboration:** Partnered with clients to define, develop, and deliver a comprehensive suite of business intelligence (BI) reports, ensuring they aligned with strategic goals and data analytics requirements.
- **Tools:** Azure Synapse, Power BI, T-SQL, DAX

Northern Ireland Appeals Service: Refactoring of On-prem Reporting Solution.

- **Optimization of SSAS Data Model:** Implemented data partitioning and optimized SQL queries to reduce model size and improve refresh performance.
- **Development of Self-Service Reports:** Created interactive reports with advanced data visualizations and drill-down capabilities using Power BI Desktop and DAX measures.
- **Server Management:** Managed Analysis and Reporting Servers via SSMS, including the creation and management of refresh jobs and automated triggers for status notifications.
- **Tools:** T-SQL, Power Query, DAX, SSAS, SSRS, PowerBI

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📅 11/2020 - 02/2022   📍 Belfast, Northern Ireland

Inter-Trade Ireland Co-Innovate: Research and Development of predictive model for VR Sim Training Solution.

- **Data Extraction and Transformation:** Implemented AWS Lambda (Cloud Functions) as a cost-effective alternative to AWS Glue for extracting and formatting data from the training solution API.
- **Data Exploration and Analysis:** Utilized AWS SageMaker for data wrangling and preliminary data analysis to gain insights and prepare data for modeling.
- **Research and Experimentation:** Conducted research to identify suitable predictive models based on the dataset and performed experiments using AWS SageMaker to support model selection.
- **Development of Continuous Training/Continuous Monitoring (CT/CM) Pipeline:** Built an ML pipeline using AWS SageMaker and CodePipeline to automate model training, testing with new data, and deployment of successful models to an inference API endpoint.
- **Documentation and Presentation:** Documented the ML workflow and model API and presented findings using Confluence to ensure clear communication and knowledge sharing.
- Tools: Python, Scikit-Learn, TensorFlow, Docker, AWS: Cognito, Lambda, Sagemaker, API Gateway, CodePipeline, and Atlassian (JIRA, Confluence).

SKILLS

Programming Skills

Python   SQL   JavaScript   TypeScript

DAX   Power Query

Technical Skills

BI Analysis   Recommendation Systems

Data Engineering   MLOps

Tools

AWS Sagemaker   AWS CodePipeline

AWS Lambda   Azure Synapse   PowerBI

SSAS

PROJECTS

Multi-criteria Recommender Systems

A comprehensive comparative study investigating the effectiveness of multi-criteria ratings on recommendations to rationalise the extended overhead

- SQL
- Python (Scikit-Learn, Pandas, SciPy)

PUBLICATIONS

Recommender systems in Virtual-Learning Environments

AI Journal

🔗 https://aijourn.com/recommender-systems-in-virtual-learning-environments/

An investigation of the application of conventional recommendation models in virtual learning environments

FIND ME ONLINE

LinkedIn
https://www.linkedin.com/in/jeremiahwangaruro/

GitHub
https://github.com/jeremiah-wa