Emma Clarke

Sydney, Australia

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Education

University of Sydney

Master of Data Science

Feb 2020 – Nov 2021 | Sydney, Australia

GPA: 6.8/7.0

Activities: Data Science Society Treasurer, Women in STEM Mentor, Research Assistant in NLP Lab

Relevant Coursework: Machine Learning, Statistical Learning, Big Data Processing, Data Visualization, Natural Language Processing, Data Mining, Time Series Analysis, Bayesian Statistics

Bachelor's Degree: B.Sc. in Computer Science and Mathematics, University of Melbourne, GPA: 6.5/7.0

Work Experience

Data Scientist | Commonwealth Bank of Australia | Jan 2022 - Present | Sydney, Australia

- Developed machine learning models for credit risk assessment, improving default prediction accuracy by 18%.
- Built automated fraud detection systems using anomaly detection algorithms, reducing fraudulent transactions by 32%.
- Created interactive data dashboards and visualizations for executive reporting using Tableau and D3.js.
- Implemented recommendation systems for personalized financial products, increasing conversion rates by 25%.

Skills

Programming: Python, R, SQL, Java, JavaScript

Data Science: pandas, NumPy, scikit-learn, TensorFlow, PyTorch, Keras

Data Visualization: Tableau, Power BI, D3.js, Matplotlib, Seaborn, Plotly

Big Data: Spark, Hadoop, Hive, Presto, Databricks

Databases: PostgreSQL, MySQL, Redshift, BigQuery, Snowflake

Cloud: AWS (SageMaker, Redshift, EMR), Azure ML

Other: Statistical Analysis, A/B Testing, Experimental Design, Model Deployment, ML Ops, Time Series Forecasting

Certificates

AWS Certified Machine Learning – Specialty

Google Cloud Professional Data Engineer

Tableau Desktop Certified Professional

DataCamp Professional Data Scientist Certification

Awards

Best Use of Data – Fintech Australia Awards 2023

Top Paper Award – Australasian Data Mining Conference 2022

University of Sydney Postgraduate Merit Scholarship 2020-2021