Resume - Emily Taylor

I am a passionate Data Scientist with a strong foundation in data analytics and a keen interest in uncovering insights that drive business outcomes. With a background in mathematics and statistics, I am adept at utilizing statistical techniques, machine learning, and data visualization to solve complex problems. I am eager to contribute my skills to help RACT support Tasmanians by delivering actionable insights and creating value for the community.

EDUCATION

2019 – 2023
Bachelor of Data Science - University of Tasmania, Tasmania, Australia.
Graduated with Honors.
GPA of 6.8/7; weighted average percentage of 83.2%.
Relevant knowledge and skill development:
• Strong foundation in statistical analysis and machine learning techniques.
• Experience with Python and R for data analysis and visualization.
• Developed expertise in data manipulation, cleaning, and preparing structured and unstructured datasets for analysis.
• Applied business intelligence tools and techniques to derive insights from complex datasets.

RESEARCH AND PROJECTS

2023
Customer Sentiment Analysis for Regional Transport Services
Worked on a project where I analyzed customer feedback data from various sources, including surveys, social media, and service records. I used Python and natural language processing (NLP) techniques to analyze the sentiment and uncover insights related to customer satisfaction and areas for service improvement. The results were presented to senior management to guide decisions on service improvements.

2022
Predictive Analysis for Sales Forecasting in Retail Sector
Developed a predictive model using time series analysis in R to forecast retail sales for a large client. The model helped improve the client's inventory management and resulted in a 10% reduction in stock-outs. I used SQL to extract data and Python for the modeling and analysis phase.

PROFESSIONAL EXPERIENCE

2023 – Present
Data Analyst Intern - ABC Consulting, Tasmania
• Conducted exploratory data analysis (EDA) on large datasets to uncover trends and correlations.
• Developed reports and visualizations in Power BI to present key findings to stakeholders.
• Collaborated with senior analysts and business teams to define metrics and KPIs aligned with business goals.
• Supported the design of data models to streamline reporting processes and enhance data accuracy.

2022 – 2023
Research Assistant - University of Tasmania
• Analyzed environmental data using Python and R, focusing on spatial data and patterns related to climate change.
• Produced data visualizations and written reports to communicate findings to academic teams and stakeholders.
• Assisted in the development of a predictive model to assess climate-related risks for coastal communities.

SKILLS AND PROFICIENCIES

High Proficiency:
• Python (Pandas, Matplotlib, Scikit-learn, NumPy)
• R (dplyr, ggplot2, caret)
• SQL (MySQL, PostgreSQL)
• Data Visualization (Tableau, Power BI, Matplotlib)

Moderate Proficiency:
• Machine Learning (Supervised and Unsupervised Learning)
• Business Intelligence software (Power BI, Tableau)

Basic Proficiency:
• GIS and Spatial Data Analysis
• Excel (Advanced Formulas, Pivot Tables, Data Analysis)

ACHIEVEMENTS

2023
Data Science Excellence Award
Awarded for outstanding academic achievements and innovative project work in data science at the University of Tasmania.

2022
Best Data Analysis Project
Recognized for my project on predictive sales forecasting in the retail sector at the Data Science Conference, where I presented my model to industry professionals.

VOLUNTEER AND COMMUNITY INVOLVEMENT

2023 – Present
Volunteer Data Scientist - Tasmanian Community Services
I work with a local nonprofit to analyze community service usage data, providing insights that help optimize service delivery. I collaborate with the team to interpret data, build predictive models, and ensure the data is accessible and understandable for decision-makers.

2021 – Present
Member, University Data Science Club
Active member of the Data Science Club, where I lead workshops on data visualization techniques

and machine learning algorithms. I also assist in organizing events that connect students with industry professionals.

INTERESTS

- **Passionate about supporting community-driven initiatives and leveraging data to improve outcomes for Tasmanians.**
- **Enthusiastic about machine learning, artificial intelligence, and data storytelling.**