

Michael Teixeira

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Personal Profile

Passionate about uncovering insights and solving problems through data. With a strong foundation in machine learning, statistical analysis, and data visualization, I thrive on transforming complex datasets into actionable solutions. My journey from hands-on construction work to data science reflects my adaptability, determination, and analytical mindset. Currently advancing my skills through specialized certifications and real-world projects, I am eager to contribute to data-driven decision-making in dynamic environments.

Technical Skills

- **Programming Languages:** Python, R, SQL.
- **Machine Learning:** Regression, Classification, Clustering, Time Series Analysis.
- **Visualization Tools:** Tableau, Power BI, Looker, Seaborn, Plotly.
- **Databases:** MySQL, PostgreSQL, MongoDB.
- **Development Tools:** Jupyter Notebook, Git, VS Code.
- **Business Tools:** Excel, GA4.
- **CRM/Sales Tools:** Podium, SpendWatt

Education

Graduate Certificate in Data Science - GC173KP19 RMIT, Melbourne, Australia	July 2024 – Present
<ul style="list-style-type: none">• Mastering advanced machine learning algorithms and statistical methods through hands-on projects using Python and R• Developing expertise in deep learning frameworks, predictive modeling, and neural networks• Implementing end-to-end data science pipelines with focus on preprocessing and model deployment• Key coursework: Advanced Machine Learning, Statistical Computing, Big Data Analytics, Data Visualization	
Machine Learning Specialization Stanford University & DeepLearning.AI on Coursera	Nov - Dec 2024
<ul style="list-style-type: none">• Implemented advanced ML algorithms including neural networks, random forests, and gradient boosting• Built recommendation systems and applied clustering techniques for unsupervised learning	
Google Advanced Data Analytics Professional Certificate Coursera Online Platform	April 2024 – Dec 2024
<ul style="list-style-type: none">• Completed capstone project on Salifort Motors HR Analytics, developing a machine learning model with 98.4% accuracy for predicting employee turnover.• Implemented advanced feature engineering, hyperparameter tuning, and SMOTE oversampling techniques.• Created end-to-end prediction system with personalized retention recommendations.• Mastered Python libraries including scikit-learn, Pandas, Matplotlib, and Seaborn for data analysis and visualization.	
Google Data Analytics Professional Certificate Coursera Online Platform	Nov 2023 – April 2024
<ul style="list-style-type: none">• Mastered SQL, R, and data visualization tools (Tableau, Power BI) for analytics.• Completed capstone project analysing bike-share data to drive business decisions.	
Certificate IV in Information Technology Escola Secundária de Vouzela, Portugal	2010-2013
<ul style="list-style-type: none">• Foundation in programming fundamentals and system architecture	

Work Experience

Data Science & Operations Coordinator <i>Green Home Green Planet, Melbourne</i>	Mar 2025 – Present
<ul style="list-style-type: none">• Coordinate 130+ monthly installations (HWS/HVAC), managing scheduling and compliance across multiple subcontractor teams.• Optimized payment collection workflows, reducing average collection time from 7 days to 24 hours (85% improvement).• Oversee contractor recruitment and onboarding, managing both casual workforce and dedicated installation teams.• Train and optimize Podium AI-powered chatbot for customer service automation, improving response times and lead conversion rates.• Perform data wrangling and analysis on energy consumption data to identify patterns and cost-saving opportunities using Python and Excel.	
Data Science Intern <i>Green Home Green Planet, Melbourne</i>	Dec 2024 – Feb 2025
<ul style="list-style-type: none">• Perform data wrangling and analysis on energy consumption and temperature data to identify correlations using Python and Excel.• Created and implemented inventory management system in Dataforce, incorporating barcode tracking for efficient stock control.• Execute daily server maintenance and provide in-house IT support for hardware/software troubleshooting.• Audit field operations for HWS and HVAC installations to ensure quality control and compliance.• Assist with client communications and subcontractor coordination for installation scheduling.• Support warehouse operations through stock movement and inventory tracking using Dataforce system.	
Trading Analyst / Market Research <i>Independent Project, Melbourne</i>	Oct 2020 – July 2024
<ul style="list-style-type: none">• Developed sophisticated analytical trading models leveraging technical indicators and advanced market pattern analysis.• Consistently achieved 60%+ success rate across 300+ live market trades, demonstrating robust trading strategy.• Engineered Excel-based systems for comprehensive market data tracking and performance analysis.• Implemented strategic risk management and precise position sizing methodologies.• Applied advanced data visualization techniques to identify and interpret market trends. <p>Key Projects:</p> <ul style="list-style-type: none">• Performed statistical analysis of various trading strategies and market conditions.• Created automated real-time market data dashboard integrating Excel and financial data sources.• Conducted in-depth statistical analysis of trading strategies to optimize market performance.	

Data Science Projects

Salifort Motors HR Analytics <i>Employee Churn Prediction</i>	March 2025
<ul style="list-style-type: none">• Developed machine learning solution for predicting employee turnover with 98.4% accuracy• Created comprehensive end-to-end prediction system with personalized retention recommendations• Applied advanced feature engineering and hyperparameter tuning techniques• Technologies used: Python, scikit-learn, Pandas, Matplotlib, Seaborn	

[View project details on portfolio](#)

Cyclistic Bike-Share Analysis

April 2024

Analysed rider behaviour data to drive membership growth for a major shared bike company.

- Tools: R for data manipulation, Tableau for visualizations.
- Identified distinct usage patterns between casual riders and annual members.
- Recommended data-driven strategies to increase membership numbers.
- Developed interactive dashboards to visualize key findings.

[View project details on portfolio](#)

Other Employment History | Further details available upon request

- **Formwork Carpenter, Australia** | Adcon Group Australia | 2020 -2023
- **Hybrid Fibre Coaxial (HFC) Technician, Australia** | TexGo Solutions, Pty Ltd | Jun 2017 - Dec 2019
- **Formwork Carpenter, Australia** | Wideform Pty, Ltd | 2013 -2017
- **IT Technician Internship** | Municipal Council of Vouzela (Portugal) | Apr 2013 - Aug 2013

References

Upon request