

# 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

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

Work Experience

<b>Data Science &amp; Technology Specialist</b> <i>Green Home Green Planet, Melbourne</i>	<b>Mar 2025 – Present</b>
<ul style="list-style-type: none"><li>Lead the implementation and configuration of SpendWatt electrification platform, enabling the company to generate custom energy solution proposals in under 3 minutes.</li><li>Train and optimize Podium AI-powered chatbot for customer service automation, improving response times and lead conversion rates.</li><li>Perform data wrangling and analysis on energy consumption data to identify patterns and cost-saving opportunities using Python and Excel.</li></ul>	
<b>Data Science Intern</b> <i>Green Home Green Planet, Melbourne</i>	<b>Dec 2024 – Feb 2025</b>
<ul style="list-style-type: none"><li>Perform data wrangling and analysis on energy consumption and temperature data to identify correlations using Python and Excel.</li><li>Created and implemented inventory management system in Dataforce, incorporating barcode tracking for efficient stock control.</li><li>Execute daily server maintenance and provide in-house IT support for hardware/software troubleshooting.</li><li>Audit field operations for HWS and HVAC installations to ensure quality control and compliance.</li><li>Assist with client communications and subcontractor coordination for installation scheduling.</li><li>Support warehouse operations through stock movement and inventory tracking using Dataforce system.</li></ul>	
<b>Trading Analyst / Market Research</b> <i>Independent Project, Melbourne</i>	<b>Oct 2020 – July 2024</b>
<ul style="list-style-type: none"><li>Developed sophisticated analytical trading models leveraging technical indicators and advanced market pattern analysis.</li><li>Consistently achieved 60%+ success rate across 300+ live market trades, demonstrating robust trading strategy.</li><li>Engineered Excel-based systems for comprehensive market data tracking and performance analysis.</li><li>Implemented strategic risk management and precise position sizing methodologies.</li><li>Applied advanced data visualization techniques to identify and interpret market trends.</li></ul>	
<b>Key Projects:</b> <ul style="list-style-type: none"><li>Performed statistical analysis of various trading strategies and market conditions.</li><li>Created automated real-time market data dashboard integrating Excel and financial data sources.</li><li>Conducted in-depth statistical analysis of trading strategies to optimize market performance.</li></ul>	

Data Science Projects

<b>Salifort Motors HR Analytics</b> <i>Employee Churn Prediction</i>	<b>March 2025</b>
<ul style="list-style-type: none"><li>Developed machine learning solution for predicting employee turnover with 98.4% accuracy</li><li>Created comprehensive end-to-end prediction system with personalized retention recommendations</li><li>Applied advanced feature engineering and hyperparameter tuning techniques</li><li>Technologies used: Python, scikit-learn, Pandas, Matplotlib, Seaborn</li></ul>	
<a href="#">View project details on portfolio</a>	
<b>Cyclistic Bike-Share Analysis</b> <i>Analysed rider behaviour data to drive membership growth for a major shared bike company.</i>	<b>April 2024</b>
<ul style="list-style-type: none"><li>Tools: R for data manipulation, Tableau for visualizations.</li><li>Identified distinct usage patterns between casual riders and annual members.</li><li>Recommended data-driven strategies to increase membership numbers.</li></ul>	

- Developed interactive dashboards to visualize key findings.

[View project details on portfolio](#)

#### Other Employment History | Further details available upon request

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- **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

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Upon request