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   **July 2024 – Present**
RMIT, Melbourne, Australia

- 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   **Nov - Dec 2024**
Stanford University & DeepLearning.AI on Coursera

- 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   **April 2024 – Dec 2024**
Coursera Online Platform

- 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   **Nov 2023 – April 2024**
Coursera Online Platform

- 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   **2010-2013**
Escola Secundária de Vouzela, Portugal

- Foundation in programming fundamentals and system architecture

Work Experience

Data Science & Operations Coordinator   Mar 2025 – Present
Green Home Green Planet, Melbourne

- Coordinate 130+ monthly energy efficiency installations (HWS/HVAC) under the Victorian Energy Upgrades (VEU) program, managing scheduling and compliance across multiple accredited contractor teams.
- Ensure VEU program compliance for government-regulated energy efficiency upgrades, maintaining quality standards and warranty requirements.
- 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   Dec 2024 – Feb 2025
Green Home Green Planet, Melbourne

- 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   Oct 2020 – July 2024
Independent Project, Melbourne

- 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.

Key Projects:

- 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   March 2025
Employee Churn Prediction

- 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