

# Maurice (Tod) Nestor

Data Scientist

Ferntree Gully, Victoria

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## Professional Summary

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Data scientist with extensive mathematical foundation (PhD Theoretical Geophysics). I have been a programming hobbyist since the mid-80's, progressing to scientific applications software development in the late 80's. Expertise in machine learning, natural language processing, and statistical modeling with proven ability to deliver production-ready solutions for complex business problems.

## Employment

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**Data Scientist (APS4)** | Australian Taxation Office | November 2022 – Present

*Document Understanding Group (2025)*

- Vision-language model evaluation for automated document information extraction
- Comparative framework development for model performance assessment
- Technical liaison with data engineering for production model deployment

*Individual Investor Group (2024)*

- Machine learning solutions for taxpayer compliance verification
- Model development and evaluation for classification tasks

*Data Graduate Program (2023)*

- Fraud detection using gradient boosted models (<1% fraud prevalence dataset)
- Contrastive learning for ANZSCO occupation classification
- Large Language Model ITAF submission and approval
- Shiny dashboard modularization for improved code maintainability

**Accounts Clerk** | Pay&Advice | November 2020 – June 2021

**Head of Mathematics** | Beaconhills College | January 2007 – November 2020

**Leading Teacher** | Ouyen Secondary College | January 2005 – December 2006

## Education

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**Master of Data Science** | UNSW | 2021 – 2022

**Graduate Diploma Data Science (with Excellence)** | Monash University | 2019 – 2020

**Doctor of Philosophy (Theoretical Geophysics)** | Australian National University | 1992 – 1995

*John Conrad Jaeger Scholar*

**Master of Science (Geophysics)** | Monash University | 1989 – 1991

*Australian Postgraduate Research Award*

**B.App.Sc (Mathematics) with Distinction** | RMIT | 1985 – 1988

## Technical Skills

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**Languages:** Python, R, Teradata SQL, Fortran, C, Bash, AWK

**Version Control:** Git

**Development Tools:** RStudio, Visual Studio Code, VIM

**Frameworks:** Scikit-learn, Pandas, PyTorch, Transformers, Snorkel AI

**Specializations:** Machine learning, NLP, contrastive learning, time series forecasting, explainable AI

## Certifications

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**Machine Learning Specialisation** | Coursera | 2023

*3 courses, 91 hours: Supervised, Unsupervised and Reinforcement Learning*

**Python Programming** | DataCamp | 2019

*18 courses, 71 hours: Software Engineering, Packaging, Git, Unit Testing, OOP, Regular Expressions, Pandas*