

Maria Prokofieva

PhD, GradDip Acc, B Sc IT/Ed, GradCert HE, FCPA

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Head of Data Science at Mitchell Institute for Education and Health Policy

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Senior lecturer, Victoria University

LinkedIn: [in/mariapr/](https://www.linkedin.com/in/mariapr/)

CPA Australia Innovation and Technology committee

GitHub: [maria-pro](https://github.com/maria-pro)

Group lead - Data analytics – CPA Australia

R Consortium Working Group - R Business – Director

Certified AWS Educator

SKILLS - Technical

ML/AI: Tensorflow / Keras, PyTorch, Hugging Face, LLMs, AI Developer Platform Weights & Biases, Pinecone, advanced modelling and deep learning applications

Data Mining & extraction: SQL, API/ RESTful API, data scraping, pdf, image recognition

Data visualization and insights: advanced charting, interactive tables, dashboards

Report generation and presentation: Jupyter Notebook, RMarkdown, Quarto, RShiny, React, Bootstrap 5.0, D3.js

Project management: AGILE/Scrum Methodologies

Collaborative/Cloud platforms: Git, AWS, Google Cloud, RStudio Cloud , Weights & Biases

Education

PhD – Business Information Systems (ITS)

Master/Bachelor of Science in ITS and Education (with First Class Honours) - Russia

Graduate Diploma in Accounting (with High Distinction) - La Trobe University, Australia

Graduate Certificate in Tertiary Education - Victoria University, Australia

EXPERIENCE

Head of Data Science - Mitchell Institute at Victoria University – October 2021- current

<https://www.vu.edu.au/mitchell-institute/about>

- Lead and oversee the delivery of timely data analytics and ML/AI projects, developing data integration, data insights, ML/AI prototypes and presentations to stakeholders.
- Lead and manage multidisciplinary teams, building collaborative work environment, mentoring staff and providing guidance
- Select, develop and implement data analytics tools and technologies to support organisation/projects needs, including managing data storage, cloud resources, data sharing and visualization platforms while ensuring data privacy, data security and data governance
- Lead aggregation and analysis of data from diverse sources, application of advanced analytics, machine learning, and AI to extract actionable insights and develop innovative solutions that enhance the team's capabilities.
- Prepare and deliver communication statement and presentation for internal and external stakeholders, communication with external senior management, funding bodies and industry peak organisations.

Head of Business analytics RStudio/Posit (US) remote 2020 – current <https://www.r-consortium.org/>

- Implementation of data science and ML/AI in business applications
- Engagement and leadership in the industry and sector through developing tools and applications for stakeholders

Senior research fellow/senior lecturer – ML/data science, Victoria University July 2010- current

- Development and execution of AI models, prototypes and POCs for research publications, funded projects and business applications
- Conducting high quality research and delivering funded research projects as reflected in high quality publications and project deliverables.

CPA Australia, Innovation and Technology committee – 2020-current

- Providing guidance and overview on available accounting/audit initiatives in the area related to ML/AI and business applications.
- Organizing and maintenance of high calibre events, including webinars and workshops for CPA Australia members, communication with CPA Australia members to provide advice and guidance.