Monash is full of thinkers and doers who are looking for their next challenge. So if you’ve forged a rewarding career so far, this role provides the perfect platform to join us. You’ll have access to quality research facilities, infrastructure and teaching spaces to do exciting work, along with opportunities to collaborate internationally. You’ll be part of a university that’s made up of inspirational, challenging thinkers and doers – and continue doing work that makes a lasting impact. Discover more at www.monash.edu.

The Faculty of Information Technology aims to lead global IT research and education. Our strong reputation and international profile attracts the best students worldwide, and we offer a program and range of courses that transforms our graduates into highly skilled and sought after IT professionals, equipped to work globally. Our research is multi-disciplinary, multi campus and multi-national, giving us a unique capacity to reach out further and deeper than any other institution in Australia. Our research priorities are both technically ambitious and embedded in everyday life. To learn more about the Faculty and the exciting work we do, please visit www.monash.edu/it.

The Monash Precinct is the largest generator of scientific data in the southern hemisphere. Harnessing expertise in AI and data science from teams like the Machine Learning Group, we are unlocking the value of AI and big data, creating human interfaces with scientific computing and using analytics to improve efficiency and success of clinical trials. Monash has recently established the new Monash Data Futures Institute to better support and advance cross-University expertise in producing and leveraging data. A University-wide eResearch group provides world-leading infrastructure platforms for ML researchers.

Over the last 10 years Machine Learning has grown to become a fundamental technology driving innovations: Self-driving cars, Siri the iPhone personal assistant, Netflix movie recommendations, cancer diagnosis, discovery of physics’ laws and science progress. Our Machine Learning group covers methodologies and applications: Association discovery, Bayesian methods, Causal models, Classification, Deep learning, Forecasting, Images, Natural language, Semi-supervised models, Spatio-temporal, Text and Time series.
POSITION PURPOSE
Machine learning is the science behind big data, data mining, data science and artificial intelligence. It enables systems to learn from data, identify patterns and make decisions with minimal human intervention. A Professor of Machine Learning is expected to exercise a special responsibility within this field in providing leadership and in fostering excellence in research, teaching, professional activities and policy development in the academic discipline within the department or other comparable organisational unit, within the University and within the community, both scholarly and general.

Reporting Line: The position reports to the Machine Learning Subgroup Lead

Supervisory Responsibilities: This position provides direct and indirect supervision to research staff and PhD students

Financial Delegation: Not applicable

Budgetary Responsibilities: Not applicable

KEY RESPONSIBILITIES
Specific duties required of a Level E academic may include:

1. Actively engage in a specialist research area in line with the Faculty’s research strategy, by maintaining a substantial active publications record (high-quality refereed journals) and supervising and mentoring early career researchers and research students

2. Foster research excellence through procuring competitive research grants, leading significant research projects and working with other staff to develop research links

3. Provide strong and committed leadership in teaching, curriculum development and research training by participating in the faculty’s curriculum planning and development processes, academic committees, and relevant examination processes in addition to monitoring the quality of individual teaching in the relevant discipline

4. Provide innovative and effective leadership for the expansion of the faculty’s HDR program by attracting high quality HDR students

5. Contribute to academic and administrative leadership within the faculty by participating in the development of policy and strategy

6. Maintain and broaden collaborative partnerships with relevant faculties and departments/schools within the University and community, and particularly via the Monash Data Futures Institute

7. Maintain and broaden collaborative partnerships with external agencies both nationally and internationally, making a significant contribution to the profession

8. Actively contribute to partnering with industry and diversifying funding avenues

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:
   - A doctoral qualification, or equivalent accreditation and standing, and recognised as a leading authority in the relevant discipline

Knowledge and Skills

2. Evidence of outstanding scholarly activity of an international standard in Machine Learning and a demonstrated ongoing commitment to one or more programs of research
3. Demonstrated ability to generate research income, including from both traditional and more innovative sources of research funding

4. Record of successful supervision of postgraduate research students and the ability to make a significant contribution to postgraduate training programs in Machine Learning

5. Proven excellence in teaching (at both undergraduate and postgraduate levels)

6. Willingness and capacity to make a substantial contribution to all activities of the department, including administration and planning

7. Proven professional leadership qualities and capacity for executive administrative responsibilities

8. Evidence of sustained relationships with industry, business, government agencies and professional bodies coupled with vision for the future needs and development of Machine Learning within Australia and internationally

OTHER JOB RELATED INFORMATION

- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted
- A current satisfactory Working With Children Check is required

LEGAL COMPLIANCE

Ensure you are aware of and adhere to legislation and University policy relevant to the duties undertaken, including: Equal Employment Opportunity, supporting equity and fairness; Occupational Health and Safety, supporting a safe workplace; Conflict of Interest (including Conflict of Interest in Research); Paid Outside Work; Privacy; Research Conduct; and Staff/Student Relationships.