

Welcome

- Welcome to Country
- House Keeping
- DutchSA and Adelaide Connected
- Torrens University
- Keynotes



Thanks for your support!



Wines from Byrne Vineyards

BYRNE VINEYARDS

- Byrne Blanc de Blanc (sparkling white)
- Byrne Reserve Clare Riesling 2023
- Flavabom Field White 2022
- Byrne Reserve Clare Valley Shiraz 2019
- Calcannia Clare Valley Sangiovese 2023
- Calcannia Clare Valley GSM 2021

স aws



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NEC Daxus Texture ao√ance ា













Beers from Deep Liquid

https://www.deepliquid.ai



Democratizing AI -





Scan the QR Code to review the AI Pale Ale





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Unlocking Australia's Future: Exploring the Power of AI



NEC

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Project Management Institute

TEA



Prof. Anton van den Hengel Director, Centre for Augmented Reasoning – Australian Institute for Machine Learning

utchSA - Adelaide Connected 7.1 - 2 May 202















Unlocking Australia's Future: Exploring the Power of AI





A. Prof. Johan Verjans MD PhD FESC FRACP Consultant Cardiologist Royal Adelaide Hospital / Jones Radiology Deputy Director, Medical Machine Learning, Australian Institute for Machine Learning, University of Adelaide, Platform Leader AI, South Australian Health and Medical Research Institute





Engaging with Industry: Experience in AI in Health

Selling an AI ecosystem

Assoc Prof Johan Verjans MD PhD FESC FRACP



SA Health





SAHMRI





- One of six research institutes at the University of Adelaide
- Largest Machine Learning Group in Australia 200+ people

Deputy Director (Health) Australian Institute for Machine Learning AUs Largest ML group (200+ people) #7 AI (TIMES higher education)



≡ Google Scholar

Metrics



Top publications

Top cited publications over the last five years Learn more

	Publication		h5-index	h5-median
1	Nature		414	607
2	The New England Journal of Medicine		410	704
3	Science	AUSTRALIAN INSTITUTE FOR MACHINE LEARNING	391	564
4	IEEE/CVF Conference on Computer Vision and Pattern Recognition	28 papers in 2021	356	583
5	The Lancet	23 papers in 2022	345	600
6	Advanced Materials		294	406
7	Cell		288	459
8	Nature Communications		287	389



AUSTRALIAN INSTITUTE FOR MACHINE LEARNING





of South Australia

SA Health

& Children's

Hospital

603



Imaging Cardiovascular Imaging

- GI / Colonoscopy
- Colorectal cancer

Projects ongoing

- Chest CT / Xray
- Orthopaedics
- Ophthalmology
- Critical Care
- Breast Cancer
- Proteomics, Lipidomics, Metabolomics
- Lipidomics to predict cardiovascular disease and treatment response
 - Breath Analysis
- Genomics / Statewide Genomics Centre
- Clinical Trials / Drug Development / Testing
 - Treatment response Leukemia
 - Immunotherapy response















Formal collaborations after

government support

2019

2020



SOUTH AUSTRALIA MEDICAL

IMAGING

OFUNDERS MEDICAL CENTRE



Excellence in Science and Industry Collaboration Australian Institute for Machine Learning

AIML ENGINEERS

Excellence in Science and Industry Collaboration award South Australian Government



Member of Global Alliance of Centres Al in Medicine -Monthly meetings (ACAIM)



Nominated AI Centre in Medicine of the Year (AIMED 2022)





ading Applied AI Ecosystem

Computer Scientists Data Scientists, Molecular Scientists, Clinicians

Best Datasets

South Australia Health Network is unique due to its size, connected single health system stable population -> Best longitudinal clinical dataset in Australia

One-stop-shop for companies

Leading Applied AI Ecosystem

AUSTRALIAN INSTITUTE FOR MACHINE LEARNING Computer Scientists Data Scientists, Molecular Scientists, Clinicians



Best Datasets

South Australia Health Network is unique due to its size, connected single health system stable population -> Best longitudinal clinical dataset in Australia





Ranking is based on a scoring model using CB Insights datasets.

Rank	Bank	ank Score 🔻		Execution	Innovation		
1	Roche	77.48	***	***	****		
2	\oplus	70.16	***	*****	*****		
3	Johnson-Johnson	67.43	***	***	***		
4	& NOVARTIS	61.37	****	***	*****		
5	sanofi	59.14	****	*****	*****		
6	AstraZeneca	58.12	****	*****	*****		
7	AMGEN	57.66	***	***	****		
8	2 Pfizer	52.10	***	*****	*****		
9	GSK	51.79	***	*****	****		
10	🐣 Bristol Myers Squibb	49.74	***	*****	****		
11	moderna	49.66	****	***			
12	BIONTECH	49.53	***	*****	***		
13	Merck	49.13	***	*****	*****		

One-stop-shop for companies *Multinationals*



Leading Methods Al

Computer Scientists Data Scientists etc



Leading Applied AI Ecosystem Computer Scientists

Computer Scientists Data Scientists, Molecular Scientists, Clinicians

Best Datasets

South Australia Health Network is unique due to its size, connected single health system stable population -> Best longitudinal clinical dataset in Australia







Australian Government

National Health and Medical Research Council



AUSTRALIAN INSTITUTE FOR MACHINE LEARNING

NHMRC





Australian Government

National Health and Medical Research Council









RapidX AI Cluster-randomised Clinical Trial

Recruited 17,000 patients 12 hospitals

Evaluation of an AI-based decision support tool for more effective, consistent and timely decision-making by doctors and health professionals for patients with Chest pain

The HeartAl system is a modern data and analytics platform to support best practice architectures and implementations for systems that are extensible, scalable, reactive, performant, secure, resilient, and tolerant to failure.

The system is primarily a cloud-native reactive microservices architecture that is orchestrated with the Red Hat OpenShift platform and the actor-based concurrency system Akka.

The system deploys to Microsoft Azure and implements modern and best-practice cloud technologies. Current service capabilities include data services, linkage services, aggregation and reporting services, analytical services, and user-interfacing services.

One-stop-shop for companies *Multinationals*



Leading Methods Al Computer Scientists Data Scientists etc

Leading Applied AI Ecosystem

Computer Scientists Data Scientists, Molecular Scientists, Clinicians

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Ethics / Guidelines

THE LANCET Digital Health

VIEWPOINT | VOLUME 4, ISSUE 5, E384-E397, MAY 2022

The medical algorithmic audit

Xiaoxuan Liu, PhD • Ben Glocker, PhD • Melissa M McCradden, PhD • Marzyeh Ghassemi, PhD • Prof Alastair K Denniston, PhD [†] • Lauren Oakden-Rayner, MBBS $\stackrel{*}{\Rightarrow}$ $\stackrel{*}{\boxminus}$ • Show footnotes

Open Access • Published: April 05, 2022 • DOI: https://doi.org/10.1016/S2589-7500(22)00003-6 •

CONSENSUS STATEMENT

medicine

Dissoik for updates

OPEN

Reporting guidelines for clinical trial reports for interventions involving artificial intelligence: the CONSORT-AI extension

Ethics / Guidelines





THE LANCET Digital Health

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CONSENSUS STATEMENT

medicine

Check for updates

OPEN

Reporting guidelines for clinical trial reports for interventions involving artificial intelligence: the CONSORT-AI extension One-stop-shop for companies *Multinationals*



Leading Methods AI

Computer Scientists Data Scientists etc

Medtronic

Leading Applied AI Ecosystem

Computer Scientists Data Scientists, Molecular Scientists, Clinicians

Best Datasets

South Australia Health Network is unique due to its size, connected single health system stable population -> Best longitudinal clinical dataset in Australia

Medtronic

BROAD AND DIVERSE MEDICAL TECHNOLOGY DIVERSIFICATION ACROSS BUSINESS UNITS & GEOGRAPHIES



One-stop-shop for companies SMEs



Leading Methods AI

Computer Scientists Data Scientists etc

Leading Applied AI Ecosystem

Computer Scientists Data Scientists, Molecular Scientists, Clinicians

Best Datasets

South Australia Health Network is unique due to its size, connected single health system stable population -> Best longitudinal clinical dataset in Australia

One-stop-shop for companies SMEs

APAS Petri Dish Reader *First in class FDA approved device*



Clinical 3D Bladder Scanner Al enabled





One-stop-shop for companies SMEs

Al enabled Clinician Insights using real-time medicare and hospital data



Al Breath Analysis Clinical trial



Al Leukemia detection Clinical Cell Classification



Interpretable Deep Learning for Chronic Myelomonocytic Leukemia Analysis

Al Health - Industry engagement Key elements

1. Deep Domain Expertise

Deep Al knowledge and understanding, ability to understand the industry's challenges

2. Credibility

Global top ranking in publications, award winning engineering team, experience working with large and small companies

3. Understanding Pain Points

Immersing yourself in the industry to gain insights (their lack of deep ML expertise, lack of data, lack of talent) Identifying key bottlenecks, inefficiencies, unmet needs, focusing solutions on high-impact areas

4. Access to data and talent

Al Health - Industry engagement Key elements

1. Deep Domain Expertise

Deep Al knowledge and understanding, ability to understand the industry's challenges

2. Credibility

Global top ranking in publications, award winning engineering team, experience working with large and small companies

3. Understanding Pain Points

Immersing yourself in the industry to gain insights , complement lack of deep ML expertise.

4. Access to data, deployment infrastructure, and talent Provide pathways to data, infrastructure and talent.

5. Starting Small

Low-risk, short-term pilot projects to build trust and show measurable value. Learn about working together

6. Delivering Impact for Industry

- Providing quantifiable improvements (e.g. cost, time, performance metrics)

7. Bridging Domains

- Blending data with technical depth, data, govt/academia, with business



Thank you

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www.adelaide.edu.au/aiml



Unlocking Australia's Future: Exploring the Power of AI





Prof. Michelle Picard Pro Vice-Chancellor Learning & Teaching Innovation – Flinders University

DutchSA – Adelaide Connected 7.1 – 2 May 2024





















Professor Michelle Picard



Generative Artificial Intelligence: Universities and Business Collaborating and Challenging

Flinders University acknowledges the Traditional Owners and Custodians of the lands on which its campuses are located, these are the Traditional Lands of the Arrernte, Dagoman, First Nations of the South East, First Peoples of the River Murray & Mallee region, Jawoyn, Kaurna, Larrakia, Ngadjuri, Ngarrindjeri, Ramindjeri, Warumungu, Wardaman and Yolngu people. We honour their Elders past, present and emerging.

Trust & Understanding



Trust & Understanding is a thing that comes with time.

The more time you spend learning about something the more you tend to understand.

And after understanding, you make the decision to trust or not.

Prof Romy Lawson

Challenges in times of rapid change

Rate

Flinders

niversity

• Rate of adoption of new technology



Prof Romy Lawson







Rate of progress in (Higher) Education Pedagogy? Responding to rapid change within an unagile system

- 'Exploring the Generative Mechanisms and Factors Shaping Academics' Trust in Academic Development Units'
- Expectation for clarity and simpler answers around artificial intelligence
- (Boitshwareloa, Nallayaa, Picard, Abu Hassan, Nghiem Nguyen, 2024)



Importance of AI Explainability



- Al is increasingly integrated into various facets of our operations, from student admissions to academic research.
- Lack of understanding about AI decisionmaking processes can lead to scepticism, mistrust, and even unintended consequences.
- Achieving explainability ensures accountability, promotes trust, and allows for effective oversight.

Prof Romy Lawson



Transparency as a Cornerstone

- Transparency involves making AI systems' processes, algorithms, and data accessible and understandable to relevant stakeholders.
- Transparent AI fosters collaboration, empowers users, and facilitates continuous improvement.
- Transparency also enhances compliance with ethical guidelines and regulations.

Equity Dilemma

	Student A Uses Al	Student A Does Not Uses Al
Student B Uses Al	Equal academic playing field	Disadvantage to Student A
Student B Does Not Use Al	Disadvantage to Student B	Equal academic playing field





Position Statement of the use of Artificial Intelligence at Flinders University

At Flinders University, we recognise the potential benefits of artificial intelligence (AI) in improving teaching, learning, research, and administration. We believe that the responsible use of AI can help us achieve our mission of changing lives and changing the world.

We also recognise the challenges of this rapidly evolving technology and are committed to using AI in an ethical and transparent manner, consistent with our values of integrity, courage, and excellence. We recognise the ethical implications of AI, including issues such as bias, privacy, and security, and we are committed to addressing these issues through rigorous ethical standards and practices.

Setting up partnerships to navigate uncertainty: 'Flinders Digital Literacy and Artificial Intelligence Working Party'







Strategies for Achieving Al Explainability

- Develop clear documentation explaining AI systems' objectives, methodologies, and limitations.
- Provide accessible training and educational resources for staff and students on Al fundamentals.
- Implement tools for visualizing AI decisionmaking processes and model outputs.
- Foster interdisciplinary collaborations to ensure diverse perspectives in AI development and validation

Practice – Decision Making



Step 1

Flinders University

Practice – Clear Communication & Guidance

Flinders University	Accessing Collections	Spaces & facilities	Students	Researchers	Staff	About	Databases	Quick links 🔲	۹	
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Appraising AI tools

When using any new digital tool or source of information, it is good practice to think critically about why you are using it, how it can help you, and what its limitations are.

\bigcirc	Purpose of the tool
	Accuracy and trustworthiness
\bigcirc	Relevancy
\bigcirc	Legal considerations
	Social and ethical considerations



Practice – Clear Communication & Guidance





Practice – Clear Communication & Guidance

FODCASI EFISODE	
GENERATIVE AI	OpenAI. (2023). ChatGPT (Mar 23 version) [Large language model]. https://chat.openai.com/chat
(4117)	Note: the author is the author/creator of the model; the date is the year of the version used; the
	title is the name of the model. ChatGPT uses a date for version labelling, other models may use a
	different system. For more, see: https://apastyle.apa.org/blog/how-to-cite-chatapt



QUICK GUIDE: APA REFERENCING 7th Edition

Referencing is a standard convention used by academic and professional communities to inform readers of the sources of information used in a piece of written work. There are many referencing formats (e.g. Harvard, APA, MLA, Vancouver) and it is critical that you use the one prescribed by the people you are writing for. Check what style your College / topic requires. This quick guide covers how to reference common source types using the American Psychological Association (APA) system (7th edition).

Please note, this is not an exhaustive list. More complete examples of APA 7th referencing can be found here:

https://apastyle.apa.org/style-grammar-guidelines/references/examples

or see the Publication Manual of the American Psychological Association (7th edn, 2019).

OVERVIEW

You must cite all your references in order to:

- acknowledge your sources
- · allow the reader to verify the data / information
- allow the reader to consult your sources independently for their own purposes
- show the reader the depth and breadth of your reading.

References must be provided wherever you quote (use exact words), paraphrase (use other people's ideas using your own words), summarise (use main points of someone else's opinions, theories or data) or use other people's data or figures. Your references may be sources of information such as books, periodicals, websites, newspapers, government reports, legal cases, electronic recordings (CD, DVD, television) or brochures. Note that some of these sources are considered more credible than others. The main elements which need to be recorded in the APA system are the author, date, title and where the source is found.

The APA referencing system consists of two components, both of which are required:

1. THE IN-TEXT CITATION

This is the short in-text reference to the source of the information e.g. Maguire (2018) or (Maguire, 2018).

2. THE REFERENCE LIST

This is a list at the end of the written text of all references cited within. In this case it contains all the details of the reference rather than the short version used in the in-text citation. One item might look like this: Maguire, E. (2018). *Give, autobiography, media: Gender and self-medicition in digital economies.* Springer.

THE USE OF GENERATIVE ARTIFICIAL INTELLIGENCE (eg. CHATGPT)

There are a number of generative artificial intelligence technologies that can be used to generate sophisticated language and visual content, such as Open AI's CharGPT and DALL-E. These tools may become part of your assessment, so it is important to learn how to use them ethically and responsibly in order to avoid instances of academic misconduct.

- Ensure you check with your Topic Coordinator to confirm that the use of Generative AI technology is permitted in your assessment and to what extent.
- Ensure you cite content developed by these tools (an example of the use of ChatGPT as a source has been included in the In-text Citations section of this guide).
- Provide a declaration acknowledging which AI technologies have been used and how. This should be included either as a footnote or at the end of your reference list, as per your topic coordinator's preference. For example:

I acknowledge the use of ChatGPT in brainstorming of this assignment using the following prompt: How can students use AI tools ethically? The output was evaluated and integrated with findings from the literature.



Trust Issues

Privacy: Generative AI models trained on large datasets may inadvertently memorize sensitive or personal information present in the data. This raises privacy concerns, as generated content could potentially reveal private details about individuals without their consent.



Walled Garden – for example Co-pilot where your data remains within the security of your organisation but data can be used from outside of the organisation



Recommendations for Higher Education

1. Establish mechanisms to share practices and approaches nationally around the use of generative AI in education

2. Work with external partners (e.g. industry, government, community) to determine how generative AI does and will impact on the work of graduates.

3. Identify, support, and promote appropriate use of generative AI to relieve workload burdens for staff

4. Continue to monitor and update institution-wide guidelines and policies around generative AI use to provide clarity for staff and students and keep up-todate with regulatory and technological developments

(Liu, Fawns, Cowling and Bridgeman, July, 2023)



Building Trust

Continuous Monitoring and Evaluation: Establish processes for monitoring and evaluating AI systems' performance, reliability, and impact over time. Regularly assess AI models' accuracy, fairness, and effectiveness in real-world settings and iterate on improvements as needed.

Education and Training: Provide training and educational resources on AI fundamentals, ethics, and best practices for stakeholders, including developers, users, and decision-makers. Foster a culture of responsible AI use through ongoing learning and knowledge-sharing initiatives.



Prof Romy Lawson





AI	Academics assess students' learning by	Students demonstrate their learning by
No Al	Creating assessments which 1) evaluate students' learning in real-world interactions not requiring use of generative AI in class, simula- tions, or the workplace 2) assess core skills and characterized and the state of the state of the characterized or all or and the supervised conditions.	Working either collaboratively or independently and relying on their knowledge, understanding and skills under real-world conditions. Complet- ing assessment without AI assistance. AI must not be used at any point during the assess- ment.
Al Advised	Creating assessments that emphasise student reflection and development of independent writing, design, or oral presentation skills in line with authentic disciplinary expectations. Students can respond to prompts/suggestions provided by generative AI built into the software to complete the task.	Students are permitted to use in-built generative Al such as slide design or grammatical/editing but are required to generate their own responses in line with the conditions and expectations of the task. No Al content is allowed in final assessment. Drafting processes will be moni- tored.
I-Assisted Idea ieneration & tructuring	Creating assessments that emphasise student reflection and development of independent writing, design, or oral presentation skills in line writh authentic disciplinary expectations. Students are permitted to use AI to assist in generating ideas and structuring texts.	Students are permitted to use AI to brainstorm ideas or provide ideas on structuring of docu- ments. They cannot create content using AI . Students should provide AI prompts used and drafts of their work and acknowledge how they used AI in their final submission.
l-Assisted Editing	Creating assessments that emphasise student reflection and development of independent writing, design, or oral presentation skills in line writh authentic disciplinary expectations. Students are permitted to use AI to make improvements to the clarity or quality of the work.	Students are permitted to use AI to edit their work and make improvements to the clarity and quality of their work. AI can be used, but original work with no AI content and AI prompts and responses must be provided in appendix. Student acknowledge how they used AI in their final submission.
Al Task ompletion, Human Evaluation	Creating authentic assessments where students could normally use AI for some or part of the task in real-world interactions. Students are required to critically engage with Al generated content and evaluating its output if used. AI tools permitted should be specified and provided to students.	Students are permitted to use AI for some or most elements of the task and demonstrate effective use of AI. They are expected to evalu- ate output irrespective of how it is statianed, keep al prompts and output, and acknowledge and cite AI created content in their final submission.
Full Al	Creating authentic assessments where students would normally use Al in the real-world as a for plant ormest the abatements of the ta with Al and enhancing creativity. Al tools should be specified and provided to students.	Students are expected to use AI creatively and collaboratively to complete the task and expected to evaluate output, keep all prompts and output, and acknowledge and cite AI created content in their final submission.

Aarti – Psychology	Jefferson – Education
Aarti, a college student, is preparing for a challenging online exam. She knows that the exam questions are randomised from a large pool of questions, so she devises a plan. She asks her tech-savvy friend, Malini, to use AI- powered software to analyse open-access past exams and generate possible questions that might appear in the upcoming test. Aarti then uses these to practice and prepare for the online exam. Has Aarti acted with academic integrity in getting help from a third party?	Jefferson is an <u>Education</u> student who is working on a group project that includes a lesson plan. He is working late and is tired, so he asks an <u>Artificial Intelligence lools</u> for a lesson plan that teaches a specific skill for students with different learning needs. Has Jefferson acted with academic integrity by getting help from the AI tool with his part of the group assignment?
Mackenzie – Law	Allen – Information Technology
Mackenzie is working on a group project with other classmates. One of their classmates is unwell and submits their part of the assignment late. Mackenzie is collating all the information, but when they read through their colleague's section, they realise that it appears familiar and on checking with textmatching software, they realise that the work is very similar to an online text. Mackenzie submits the work as is as they do not have time to address the issue.	Allen is working on an assignment. His friend generates an AI summary of the reading material for him. He rephrases the output slightly and includes it in his assignment. He cites the book, but not the AI tool or his friend.
Has Mackenzie acted with academic integrity by submitting work for the group assignment which includes work that might be plagiarised.	Has Allen acted with academic integrity by submitting this work without citing or acknowledging Al or his friend?
Dylan – Government	Noor – Business
Dylan is working on an assignment. They are asked to analyse a policy and then make a reasoned argument of how government should implement this policy. Dylan develops their argument_but is struggling to identify suitable references. They ask an artificial intelligence tool to generate references for them and add them to the essay.	Noor is thinking about how to plan for her project. She has many components to the task and feels overwhelmed. She thinks that she can post the assignment question in an Artificial Intelligence chatbot.
Has Dylan acted with academic integrity by generating references through artificial intelligence?	Has Noor acted with academic integrity by posting her complex essay question in an Al chatbox?
Mackenzie is working on a group project with other classmates. One of their classmates is unwell and submits their part of the assignment late. Mackenzie is collating all the information, but when they read through their colleague's section, they realise that it appears familiar and on checking with testmatching software, they realise that the work is every similar to an online text. Mackenzie submits the work as is as they do not have time to address the issue. Has Mackenzie acted with academic integrity by submitting work for the group assignment which includes work that might be plagiarised. Dylan is working on an assignment. They are asked to analyse a policy and them make a reasoned argument of how government should implement this policy. Dylan develops their argument, but is struggling to identify suitable references. They ask an artificial intelligence tool to generate references for them and add them to the essay. Has Dylan acted with academic integrity by generating references through artificial intelligence?	Allen is working on an assignment. His friend generates an Al summary of the reading material for him. He rephrases the output slightly and includes it in his assignment. He cites the book, but not the Al tool or his friend. Has Allen acted with academic integrity by submitting this work without citing or acknowledging Al or his friend? Noor - Business Noor is thinking about how to plan for her project. She has many components to the task and feels overwhelmed. She thinks that she can post the assignment question in an Artificial Intelligence chatbot. Has Noor acted with academic integrity by posting her complex essay question in an Al chatbox?

Education and Training:

 Provide training and educational resources on AI fundamentals, ethics, and best practices for stakeholders, including developers, users, and decisionmakers. Foster a culture of responsible AI use through ongoing learning and knowledgesharing initiatives.

Policy – Certifying Learning

C. Contract cheating

- Acquiring or commissioning a piece of work, which is not the student's own and representing it as if it
- were, by:
- i. purchasing the assessment task from a commercial service, including internet sites, whether prewritten or specially prepared for the student concerned

ii. submitting an assessment task produced by a third party, including a friend, family member, fellow student or a staff member of the University

iii. submitting an assessment task generated by an algorithm, computer generator or other artificial intelligence

[Contract cheating is, at minimum, Level 2 (Serious) Academic Misconduct in all instances]

(Student Integrity Policy, Schedule 3 – Examples of failure to meet student integrity requirements, p.7)

upations	Exposure											
t Authorizers, Checkers and Clerks	88%				8	1%					7%	12%
igement Analysts	76%				70%				7%		24%	
narketers	87%				68%					18%		13%
itical Assistants	74%			6	1%				13%		26%	
3	93%			60	96				:	34%		7%
sic Science Technicians	60%			589	16		1%	4%		37	%	
ptionists and Information Clerks	69%			589	6			11%			31%	
erage Clerks	74%			589	6			16	396	17	'%	10%
uction, Planning and Expediting Clerks	72%			57%				15%		18%	5	10%
llerics	63%			56%				7%	11%		26%	
Processors and Typists	63%			55%			5	6		40%		
keeping, Accounting and Auditing Clerks	78%			55%				2	3%		22	њ
Secretaries and Administrative Assistants	77%			54%				23	%	1	2%	11%
Interviewers and Clerks	80%			54%				:	27%		13%	7%
nd Account Collectors	63%			53%			9	6	21%			17%
	(0	10	20 3	10 4	0 5	0	60	70	80	ŝ	10
				Automation		ation 🔴 Los	wer notenti	al 🔴 No	n-language (taeke		





Jobs most exposed to automation

(https://cybernews.com/tech/ai-proof-jobs-matrix-helpdetermine-your-career/)

Principles

TEQSA: Assessment reform for the age of artificial intelligence (September 2023)

Educational Experience

- Preparing students for employability (real world):
 - A shift from Knowledge and Skills to
 - Skills & Application
- Personalised learning experiences
- Humanistic education
 - Personal reflection and experiences
 - Emotions
 - Values
 - Critical analysis
- Enhancing research skills

Academic Integrity

- Certify student's learning
- Raising awareness (process not product)
 - Artificial Intelligence to enhance learning but not to produce an assessment product
- Equips students to participate ethically with AI
 - Referencing tools
- Assessment design
 - Appropriate engagement with AI
 - Authentic assessment
 - Criteria clearly communicated

Risks

- Ethical
- Security
- Legal considerations



Building Trust



Community Engagement: Engage with diverse stakeholders, including employees, customers, regulators, and civil society organizations, to solicit feedback, address concerns, and build trust in Al initiatives. Foster transparency, openness, and collaboration in AI development and deployment processes.



Ethical Guidelines and Standards: Adhere to established ethical guidelines and standards for AI development and deployment, such as the IEEE Ethically Aligned Design, the EU's Ethics Guidelines for Trustworthy AI, or industry-specific codes of conduct. Align AI initiatives with principles of beneficence, non-maleficence, autonomy, and justice.



EXPERIMENT AND EXPERIMENT BRAVELY.

Flinders University Founding Vice-Chancellor Professor Peter Karmel

Forever Fearless





Unlocking Australia's Future: Exploring the Power of AI





Panel Discussion

utchSA – Adelaide Connected 7.1 – 2 May 202-























- To effect change in any organisation and introducing AI is significant change how much emphasis have you had to put into the demonstrating the benefits of AI? Recent Gartner research shows that currently about 52% of AI projects are successful. A key contributor to that number is the lack of direct benefit.
- When thinking through what organisations need to be successful with their AI journey, what are the 'non-technical', call them business considerations or enhancements that you would want the audience to think about?
- If you want to give one piece of advice to this audience something they should start doing or thinking about tomorrow with regards to the embracing of AI, what would that be?
- Many AI use cases are focused at improving process efficiency (sometimes even accuracy), but use cases where AI solves a big business or societal problem are few and far between. Can you give examples where AI has added great value and where Australia has the best opportunities to augment its export capabilities with AI?





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