

Careers Newsletter

Careers in Machine Learning



What are Machine Learning Careers?

Machine learning is a branch of Artificial Intelligence (AI) that gives machines the ability to learn from data and perform tasks by themselves. The [2023 Future Jobs Report](#), has found AI and Machine Learning Specialist as the number one growing job in the world! But there are many career opportunities in the field, including Machine Learning Researchers, AI Engineers, and Data Scientists. And, as the world of AI continues to expand, new occupations will emerge.

What skills and strengths are needed?

Careers in AI require strengths and skills in computer science and maths and statistics. Professionals often have qualifications and experience in computer programming, data science, software engineering, or information technology. Employers also value skills in communication, teamwork, critical thinking, and leadership.

What are the pathways?

Pathways typically involve completing an undergraduate degree in data science, computer science, or statistics, but continuous learning is crucial as technology evolves rapidly and graduate study may be required for advanced roles.

In this Issue

[Careers in Machine Learning](#)

[Defence Work Experience](#)

[DHA Gap Year Program](#)

[Komatsu Apprenticeships](#)

[Casual Roles at Coles](#)

[Kickstart Your Career with AFL Sports Ready](#)

[Elders Livestock Traineeships](#)

[PWC Technology Higher Apprenticeships](#)

[Does Playing Sports Benefit Your Career?](#)

[Careers in Early Childhood Education](#)

[Succeed at Southern Cross University](#)

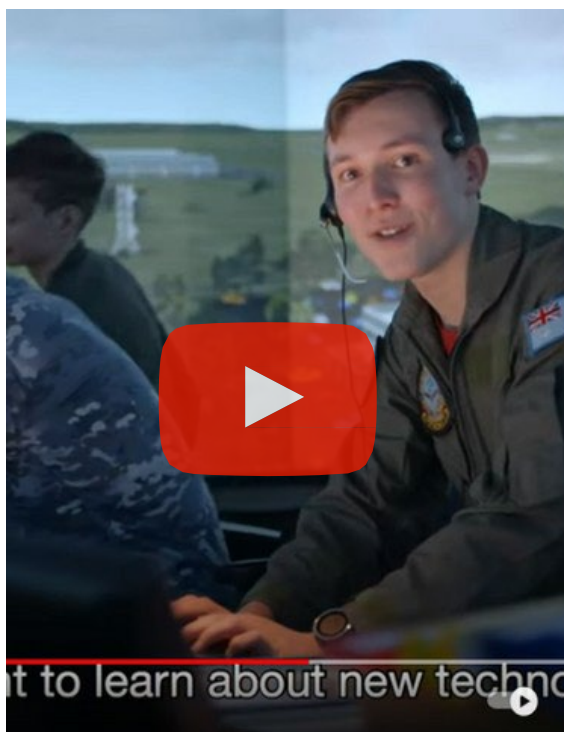
[Win a Coaching Session with Ellie Carpenter!](#)

[Challenges and Competitions](#)

"Success is liking yourself, liking what you do, and liking how you do it."

— Maya Angelou, Author & Activist

Defence Work Experience



Discover the Defence Force through Work Experience!

Ignite your passion for adventure, discipline, and service with a thrilling work experience placement with the Australian Army, Navy, or Air Force. Unleash your potential, explore cutting-edge technology, and witness teamwork in action.

The Defence Work Experience Program provides young Australians interested in Defence as a future career, the opportunity to sample life in Defence and learn more about the Australian Defence Force (ADF) and the Australian Public Service (APS).

Examples of available roles include:

- Day in the life of a Soldier
- An Aerial View: Air Force Careers
- ADS Cyber Security and Robotics
- Naval Gazing Navy Careers Experience
- Operation: Youth Inspire - Indigenous Youth Placement
- Army in Motion: maritime, Technical Trades, Hospitality and Support
- Plus more!

Opportunities are available across Australia and you can search and apply for them [here](#). Join the ranks and discover a world of excitement, challenge, and endless opportunity!

Department of Home Affairs Gap Year Program

Are you considering a gap year to earn some extra cash for 12 months?

Consider a Gap Year with the Department of Home Affairs and spend an exciting 12 months getting paid for meaningful work and gaining skills for life.

Ideal candidates are:

- Great communicators.
- Well organised
- Team players.
- Resilient and responsive.
- Accountable and transparent.
- Able to quickly acquire knowledge of departmental IT systems, legislation and policy.

Several Administrative Support Officer roles are available nationwide and applications are open until 2 July, 2023. They are entry level administrative roles so no past work experience or ATAR is required as all training is provided. Applicants must be Australian citizens prepared to undertake and pass an Australian Government security clearance process. You can find more information and apply [here](#).



Komatsu Apprenticeship Program

Apprentice Program

Unlock your potential

REGISTER YOUR INTEREST



With a Komatsu apprenticeship available across Australia, you could qualify as a:

- Plant Mechanic
- Electrician
- Automotive Electrician
- Mechanical Fitter
- Electrical Fitter
- Boiler Maker
- Parts Interpreter/Customer Service Representative

Their Award Winning Apprentice Development System has earned widespread recognition and awards. As a Komatsu apprentice, you will learn valuable, nationally recognised job skills and qualifications; be supported by a dedicated Apprentice Technical Capability team; and be provided with mental health awareness and resilience training. Visit their [Frequently Asked Questions](#) page for helpful advice about preparing your application and for more insight about what it's like to be a Komatsu apprentice. .

Applications for the 2024 program open 1 July, 2023. [Register your interest](#) now to receive updates.

Casual Roles at Coles



Start out Strong with a Casual Role at Coles

Becoming a team member at Coles Group is more than just a fun and rewarding experience; it's a chance to gain practical skills, make friends and build your confidence. It's the beginning of a journey, on which you'll discover all kinds of things about yourself, and the support you need to get to wherever you want to go.

Coles Group are calling for [expressions of interest](#) to join their team as a casual Store Team Member. They use the expression of interest method of recruiting to match you to jobs when they become available. When submitting your Expression of Interest, they suggest you maximise your chances of being matched by considering each question carefully and including the broadest preferences you can.

Coles understands that for many applicants, Coles could be their [first job](#), so they've put together a guide to help you breeze through the application process. Learn about what they're looking for, how to make a good impression with your [resume](#), and how to prepare for your [interview](#).

Kickstart Your Career with AFL Sports Ready

AFL SportsReady helps young people kickstart their careers with entry-level job and training opportunities!

Don't let the name fool you - while this not-for-profit company has a strong sports focus, they partner with several industry sectors, including:

- sport and recreation,
- business and administration,
- education,
- finance,
- horticulture,
- information technology,
- retail and arts, and
- the creative industries.

These partnerships have launched the careers of thousands of young Australians. You can find [traineeships](#), apprenticeships, [educational opportunities](#), and First Nations [cadetships](#) and [direct employment](#) opportunities on their [Jobs Board](#) and [register](#) for job updates.



Elders Livestock Trainee Program

The [Elders Livestock Career Development Program](#) will launch your career in livestock sales and marketing, production, and animal health.

It is a nationwide, 18-month entry-level program beginning in January that involves 2-3 rotations so you grow your skills across different conditions and teams.

You'll work on real jobs in saleyard and branch environments and be given the tools, training, and experience to succeed in your career, whilst making a difference to Australia's rural communities.

No prior qualifications are needed, but you should:

- have some experience or familiarity with the livestock and/or agricultural industry;
- be willing to relocate for program rotations within your home state; and
- be an Australian or NZ citizen or permanent resident.

[Applications](#) close 5pm 28 June, 2023.



Want to get started in the tech industry but don't want to go to uni?

Getting a career and qualification in one could be for you! With the 2-year [PwC Higher Apprenticeship Program](#) in Brisbane, Sydney, or Melbourne, you will:

- Obtain a Certificate IV followed by a Diploma (typically in Information Technology or Business).
- Learn in a hands-on environment, forming relationships that will set you apart.
- Have the chance to join the Graduate program to continue your professional growth once you've completed your apprenticeship.

To be eligible you must:

- Be Australian or NZ citizen or permanent resident.
- Not already have a Certificate IV or higher qualification.
- Have your Year 12 Certificate by the time the program starts.

Applications open soon so be sure to [register](#) your interest.

Hear more about what a Higher Apprenticeship at PwC is like in the videos.



Meet our higher apprentices



**Meet Kate, a PwC
Higher Apprentice**



**Meet Arya, a PwC
Higher Apprentice**



**Meet Karthi, a PwC
Higher Apprentice**

Does Playing Sport Benefit Your Career?



Do you play sports? Does it help or hinder your studies, and do you think it's useful for your career?

Year13 and Visa teamed up to ask 1,250 thirteen to twenty-three year-olds from across Australia these questions as part of their PlayOn youth sport survey, and this is what they found...

The age most young people stop playing sports is 15.

40% of young people don't play sport, with the top reason being so they have more time to study.

Of those who do play sport, the majority believe it benefits their studies because it helps clear their mind, lift their mood, give them energy, improve their productivity, and helps them sleep.

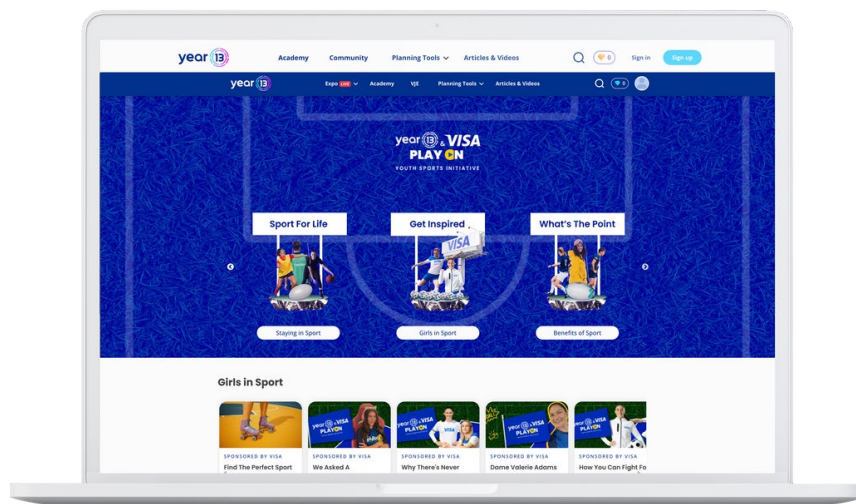
Interestingly, only a minority thought sports helped with their careers, despite most identifying it as developing teamwork, resilience, collaboration, discipline, and leadership - all skills high up on employers' most wanted lists!

What this means is that young people see the benefits of sport and the transferable skills playing them builds, but aren't connecting them to the broader context of their careers and lives.

So if you've dropped sport to focus on study, might it be time to think again? Rather than seeing sport as conflicting with your study and career aspirations, can you connect it to helping you reach them instead?



Click over to [PlayOn](#) to learn more about how sports benefit your life and your career!



Consider Early Childhood Education as a Career



Education and Training

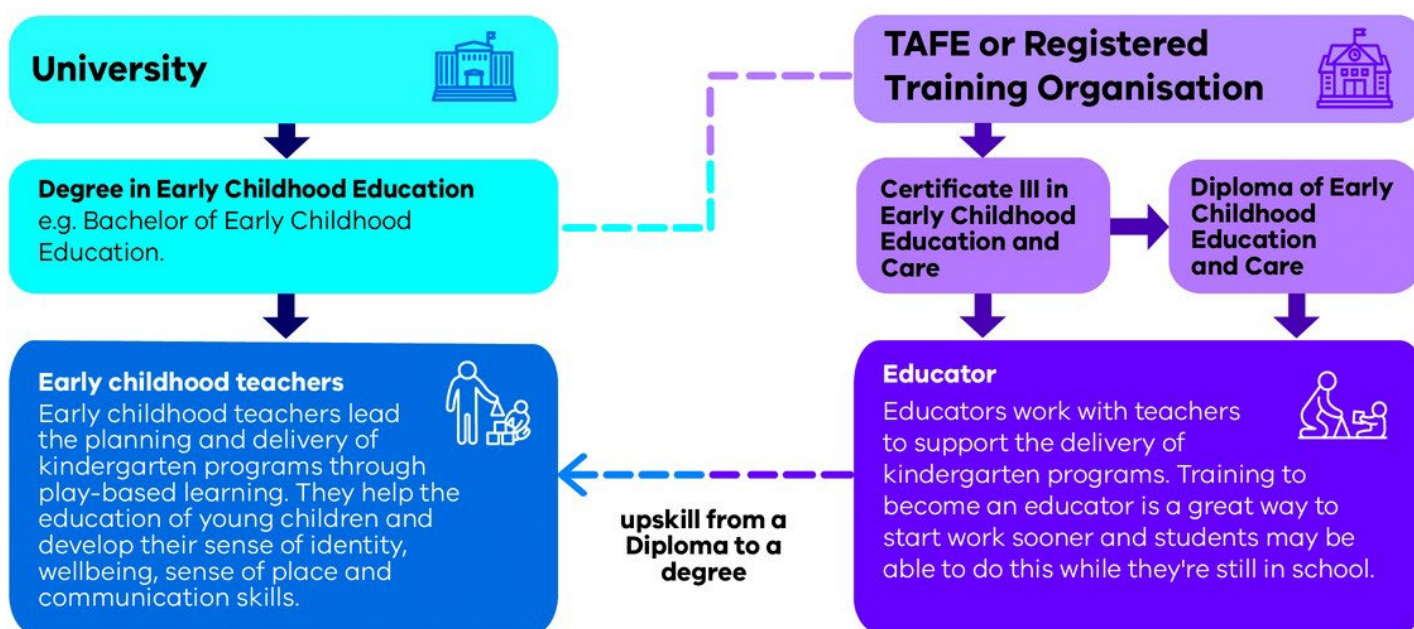
Why Students Should Consider Early Childhood Education as a Career

Did you know that 90% of a child's brain develops by the time they're 5 years old? Early childhood education isn't babysitting; it's teaching through play-based learning, and as an early childhood teacher or educator you have the incredible opportunity to help children learn during their most crucial years of development.

The Victorian Government's roll-out of free kindergarten for three and four-year-olds will create over 11,000 new jobs. Study and employment opportunities are available across Victoria, with:

- Free TAFE places for Certificate III and Diploma qualifications
- Up to \$25, 000 for students studying approved undergraduate qualifications
- Up to \$34,000 for Aboriginal and Torres Strait Islander students studying approved undergraduate qualifications, and Certificate III and Diploma qualifications

Make a difference in young lives and help shape future generations of Australians through a career in early childhood education. To learn more, visit [Early childhood teaching: make a difference](#).





Southern Cross University

The Southern Cross Model for Learning

The University's state-of-the-art facilities and unique teaching model improve student success through immersive teaching and learning.

In six-week terms, (with two weeks' break in between), you study only two subjects and learn through questioning, discussion, and problem-solving with your peers, rather than through traditional lectures. This focused structure creates a sense of momentum and motivation to reach your learning goals while the interactivity and real-world applications give you a better understanding of your subjects.

This approach has earned the University 5-stars in the 2023 Good Universities Guide for full time employment and overall educational experience across Business, Humanities and Nursing.

Student Services and Scholarships

Students have access to services including academic support, counselling, mentoring, and careers advice, as well as to a range of clubs and social events so you can thrive. There are 25 different kinds of scholarships for commencing students recognising academic excellence but for students experiencing disadvantage.

Open Days

Imagine the life you could lead as a Southern Cross University student at their Open Days. You'll discover the advantages of their locations with a campus tour, and hear from current students, alumni, and industry experts to learn why it's an excellent choice for your higher education. You'll even go in the draw to win one of three Amsterdam+ e-bikes worth \$2,998 when you register! If you can't be there in person, be sure to check it out from 8 July online and on-demand.

Campus Locations and Courses

Gold Coast & Coomera

Just 400 metres from the beach and close to the airport, courses include arts, nursing, midwifery, occupational therapy, podiatry and pedorthics, psychological science, speech pathology, social science and social welfare, business, education, information technology, law, and tourism. The Coomera campus is a partnership with TAFE QLD with a focus on music, digital media and information technology.

Lismore

Just 30 minutes from Byron Bay, this campus has courses in arts and social sciences, education and teaching, digital media, business and tourism, marine and environmental sciences, engineering and science, health sciences, law and justice, Indigenous knowledge, music and creative arts. On-campus accommodation is available.

Coffs Harbour & National Marine Science Centre

Set among rolling hills and bushland this campus offers accommodation and courses in Health, Education and Marine Science, complemented by the National Marine Science Centre.

Sydney, Melbourne, and Perth

Conveniently located in each city's CBD these campuses offer a broad range of courses for international students.

The Hotel School in Sydney, Melbourne, and Brisbane

Delivers Southern Cross University Diploma, Associate, Bachelor, and Post-graduate hotel and tourism courses.

Online

Online study is a flexible option for students who don't want to relocate. Online degrees include business, information technology, the arts, psychological science and law.

Win an e-Bike

Register for your chance to win one of three Lekker Amsterdam+ e-bikes worth \$2,998*

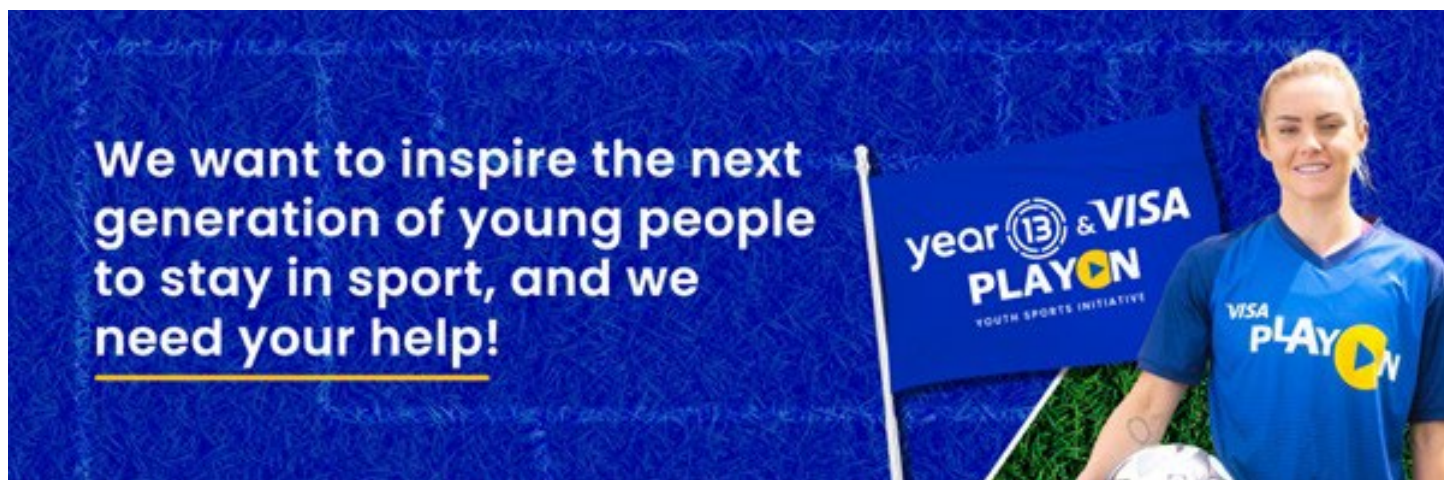
Register now

Open Day

Gold Coast 6 August
Northern Rivers 10 August
Coffs Harbour 13 August



Win a Coaching Session With Aussie Soccer Star Ellie Carpenter



Five Facts About Ellie Carpenter

1. Ellie grew up in a country town called Cowra in NSW.
2. She left school in Year 10 to pursue her football career.
3. In 2016 she was the youngest ever female footballer to compete at the Olympics.
4. By just 16, she could say she'd represented Australia, been to the Olympic Games and trekked around the globe to play professional football.
5. She was named the 2017/18 NAB Young Footballer of the Year.

You can watch Ellie play in the FIFA Women's World Cup from the 20th of July.

What a sporting hero!!

Brought to you by Visa and Year13

Visa and Year13 have launched a sports initiative aiming to connect young people, parents and schools with the value of "playing on" and the positive outcomes sports participation has on young lives.

The initiative features advice, guides, webinars and exclusive interviews with prominent role models such as the Australian soccer team superstar Ellie Carpenter, New Zealand Football Ferns defender Claudia Bunge, Olympic athlete Dame Valerie Adams, and more.

Who Can Enter

Entry is open to all Australian under 18 club or school football teams. Entrants can include:

- Players (aged 13-17)
- Coaches
- Parents and Guardians
- Teachers and School Representatives

How To Enter

Visit the [competition page](#), register your details, and in 25 words or less:

"Tell us why you're committed to playing on"

The competition opens 13 June and closes 30 June, 2023.

The Prize

The competition winner will receive an in-person coaching and mentoring session with Ellie Carpenter for their local club or school.

Find full terms and conditions [here](#).

Challenges and Competitions Open NOW!

Competitions and challenges are either free or have low entry fees and are open to students nationwide unless otherwise stated.



SF3 is Australia's international smartphone film festival. Open now to filmmakers of all ages. Your film must be shot entirely on a smartphone or tablet. Deadlines 1 June-1 September, 2023. Student entry fee from \$8-\$35 depending on category and deadline.



Owlypia Online is a multiple choice knowledge competition. Students aged 9-18 compete with peers internationally, showing their knowledge and skills in their favourite subject areas. Register now for the event happening 1 July 2023. You could qualify for Globals in Cambridge and Boston!



Young ICT Explorers is open to students in Grade 3 - Year12 to solve real-world problems or showcase their passions using technology. Anything from creating better ways to recycle, to supporting people with disability; from creating virtual reality worlds. Closes 14 July 2023.



Wool4School is an annual student design competition encouraging budding fashion designers to show their nation what they're made of. The competition is open to most secondary school students in Australia, United Kingdom and Italy. Students must register. Closes 20 July 2023.



The Australian STEM Video Game Challenge is open to students in Grade 4 - Year 12. Students work in teams to create a video game on this year's theme of Construction and Destruction! Submission window for game entry will run from Monday, 24 July - Monday, 7 August, 2023.

UoM Research Competition

MATHEMATICS

The University of Melbourne's maths research competition is open to students in Grades 5 - Year 12. Work in a team, or on your own, to research into a given project. Unleash your creativity and your problem solving skills! Choose a project and submit your report or visual display by 31 July 2023.

Speech Competition

The Robert Menzie's Institute Speech Competition is open to students in Years 9-12. Practice your oratorical skills in a speech relating to the legacy of Australia's longest-serving Prime Minister. Submit a video recording of you 5-7 min. speech in response to the topic by 9 July 2023.

Capture the Weather Photo Competition

Submit your vision of Australia's diverse weather to the Australian Weather Calendar photo competition. The judges will be on the lookout for photos that capture weather in a unique, spectacular or visually appealing manner. Open to everyone from 1 July 2023.

Challenges and Competitions Open NOW!

Competitions and challenges are either free or have low entry fees and are open to students nationwide unless otherwise stated.



Collarts competition is open to students in Years 10-12. Entries can relate to improving products or spaces, textiles, fashion and clothing or you could create photography, animation or graphic design - anything that encompasses the 2023 theme: Creative Futures. Closes 9 July, 2023.



Open to students in Years 9-12 from the ACT, NSW, Vic, and Qld. Submit an MP3 demo of an original song (that you've written individually or as a team) along with written lyrics. Win over \$2500 in prizes and mix your song with Academy staff! Closes 27 August, 2023.



The UNSW Bragg Student Prize for Science Writing is a competition for Year 7-10 students in Australia. Write 800 words to explore how science and technology use or benefit from AI and how should we best navigate a future where AI is part of our everyday lives. Closes 25 August, 2023.



The international Bebras challenge is open to Australian Students in Years 3-12, and engages students' computational thinking and problem solving skills in a fun, interactive environment. Round 2 - 21st August - 10th September, 2023.



Heywire is a lived experience storytelling competition from the ABC, calling for stories from young people aged between 16-22 in regional, rural and remote Australia. Entries are open for 2024 and close on 1 September, 2023. The easiest way to enter is by filling out this form.



The Bell Shakespeare festival is open to Australian primary and secondary students an household entrants from across Australia. Make a short films about or inspired by Shakespeare that also reflects your school or community. Closes 22 September, 2023.



The Academy for Enterprising Girls is a fun online eLearning campus designed to help students learn the innovation, design thinking, and tech skills to think like a Girl Boss and start their own business one day. There is no closing date, enter the academy challenge at your own leisure.



The National History Challenge is a research-based competition giving Australian Grade 1- Year 12 students a chance to be historians, researching world history, examining Australia's past, investigating their community or exploring their own roots. Closes 25 August, 2023.