

JOB SPOTLIGHT

# Machine Learning Engineer

INDUSTRY GROWTH -  
STRONG

ORGANISE  
PROCESS  
INTEGRATE



ponder

# Machine Learning Engineer

*Use data and tech to solve problems*

Machine Learning Engineers (MLEs) are professionals who work on creating and developing systems that can learn and improve from data. These systems are designed to recognise patterns and make decisions on their own. They work with large amounts of data to train algorithms, which then learn from the data and get better over time.

If you're interested in technology, problem solving, and helping computers learn to do amazing things, this career might be something to consider.

## Industry

Most MLEs work in the Professional, Scientific and Technical Services industry.

## Outlook

There is strong growth expected over the next five years.

## Salary

Most MLEs earn an above average salary.

## Career Cluster

MLEs are usually Innovators.



## About you

Excellent problem solver  
Programming skills  
Good maths skills  
Great communicator  
Committed to lifelong learning  
Adaptable and resilient  
Good attention to detail  
Mindful of ethical implications of your work

## Common tasks

- Choosing algorithms for specific tasks
- Gathering and organising data
- Processing and preparing data
- Designing and building models
- Keeping detailed records of work
- Creating visual representations of data outputs
- Integrating the trained model into other systems

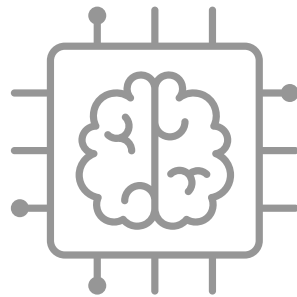
## About the role

As a Machine Learning Engineer, a majority of your work will be done indoors, typically in settings such as offices, laboratories, or remote workspaces.

Most Machine Learning Engineers work full-time, and part-time and casual roles aren't very common. They often work for private tech companies, research institutions, or for the Government.

Many Machine Learning Engineers earn an above average salary throughout their career.

Machine Learning Engineers are more commonly found in metro or urban areas. But with the rise of remote work and the increasing importance of technology in various industries, opportunities in rural and remote areas may grow.



## Things you can do now

- 1 Find work experience in a tech or STEM environment
- 2 Build your programming and problem solving skills
- 3 Research qualifications and courses
- 4 Talk to someone who works as an MLE or watch videos
- 5 Start building a portfolio with projects you've completed

### Future study ideas

To become a Machine Learning Engineer you will need to complete a relevant university degree, such as in computer science, data science, or software engineering, as well as some further training.



## What next?

Start learning a variety of programming languages, particularly Python, Java, and C, as you'll need to use these frequently in your work. You might like to take a technology subject at school, or look at short courses and workshops (there are heaps available online too).

See if you can find work experience in tech, STEM, or another related field. This will help you see if you might enjoy the work, and can help you start building important contacts for the future.

Predicting the  
future isn't magic,  
it's artificial  
intelligence.

UNKNOWN

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