



## Job Description: ML Engineer – [CD-JD0010]

- Sydney, Australia
- [Contract, Casual, Full-time/Part-time]

CruxML Pty Ltd is a provider of world-leading expertise in field-programmable gate array (FPGA) design, AI compute acceleration and real-time machine learning (ML). Using our deep knowledge of these technologies, we help our clients gain a competitive advantage.

### Role

CruxML is seeking an ML Engineer to work on projects in the general area of real-time and radio frequency machine learning. You will use your skills to provide innovative solutions to a diverse set of design problems.

### Requirements/Preferences

In this role you will be part of a team responsible for the implementation of our ML solutions on FPGA and other accelerator devices. Our requirements include:

- Experience in developing ML models and applications using TensorFlow or PyTorch
- Undergraduate or higher degree in engineering or science
- Australian Permanent Residency or Citizenship

with a preference for

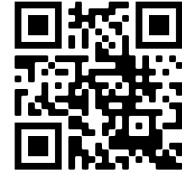
- Familiarity with signal processing
- Familiarity with edge implementations, e.g. real-time implementation and/or low-precision deep neural networks.

### Key Responsibilities

- Work with customers and the engineering team to design the next generation of ML and FPGA-based machine learning solutions.
- Work in design, implementation, debug, and validation of CruxML products and consultancies.
- Develop a set of software tools to solve graph optimization problems
- Write and review documentation.

### To be successful

- You will deliver projects and work on time and budget.
- You will insist on deliverables of the highest quality.
- You will contribute to a team of happy, accomplished, and high performing people.
- You will participate in high quality relationships with customers and contribute to acquiring both new and repeat business.
- You will contribute to making CruxML a great place to work.



## Preferred Experience

- A post-graduate degree in computer architecture, ML, data science or a closely related field.
- Training low-precision deep neural networks using PyTorch or TensorFlow.
- Experience with graph optimization problems
- Python and PyTorch or TensorFlow programming

## Location details

- Sydney Knowledge Hub (<https://www.sydney.edu.au/engage/industry-business-partnerships/sydney-knowledge-hub.html>)

## Company Description

Our company has the vision of being a leading provider of ML and FPGA expertise internationally. Our most important asset is our staff, for which we provide a nurturing and technically challenging environment. CruxML's goal is to better society through our work.

CruxML's mission is to work with our clients to create real-time machine learning capabilities as integral parts of their solutions. CruxML provides full-stack expertise, including inference acceleration, collection of training data, development of models, off-the-shelf and bespoke FPGA acceleration, hardware/software integration, device drivers, printed circuit board design and training. We supplement existing domain expertise with our ML and FPGA hardware design knowledge so that novel products and solutions can be developed with an agile hardware development methodology.

## CruxML is an equal opportunity employer

We believe that the unique contributions of CruxML employees are a key driver of our success. To make sure that we incorporate a broad diversity of perspectives and experience we never discriminate based on marital, veteran, disability status, race, religion, gender identity or expression, sexual orientation, age, or political persuasion.