Machine learning infrastructure deployed at scale

Understanding requirements, demand, impact and international best practice

Over the past two years, there has been a steep increase in the application of machine learning (ML) techniques across a wide range of domains. There has also been a significant increase in demand for hardware suited to deep learning, including GPUs and high-bandwidth file systems.

This project investigated the soft and hard infrastructure required to underpin and support the increasing adoption of ML, at scale.

Goals for the project were:

1. To form a clear understanding of the relationship between research requirements, computing capability, capacity, and research impact;
2. To understand individual researcher requirements and consolidate these across a large cohort of groups, so that we can make evidence-based recommendations on how to underpin research adopting ML in the most efficient and effective manner, at scale;
3. To understand international best practices, and how it should inform Australian investment.

Start date

23 July 2019

Expected completion date

21 October 2019

Investment by ARDC

$50,000

Co-investment partners

University of Melbourne

The University of Queensland

Alfred Health

Victorian Institute for Forensic Medicine

University of Auckland

NVIDIA

Lead node

THE UNIVERSITY OF MELBOURNE
POSTERA CRESCAM LAUDE

1. Report

Investigation of demand for Machine Learning infrastructure deployed at scale: understanding requirements, demand, impact and international best practice

2. Poster

Showcasing the project work and outcomes.

3. Presentation

Ignite style talk at the Storage and Infrastructure Summit drawing together lessons learned from the project.

Core features

Community support and involvement

A strong sense of community support and involvement in developing answers to some of the more difficult questions our sector faces.

Ignite ideas and discussions

Enabling diverse stakeholders to engage in discussions and sharing of ideas to shape a research data commons for our nation.

Who is this project for?

Infrastructure providers

What does this project enable?

Projects in this area will contribute to determining what vision, governance structure and implementation program are necessary to create an Australian research data commons.

Handy resources

- Final Report
- Presentation
- Poster

University of Melbourne

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The University of Queensland

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Alfred Health

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