# Accelerating skills development in data science and AI at scale

Presented by Komathy Padmanabhan, DSAI Platform Lead, Monash University

Titus Tang, Training Manager, DSAI platform, Monash University

with a purpose..

- Bring together and enhance existing capabilities of the university in AI and Data science

- Be a stepping stone for researchers with large and complex datasets to apply data science, Machine Learning and AI to their research

- Underpin the Monash Data Futures Institute, translating discoveries into life-changing, industry-changing and world-changing solutions
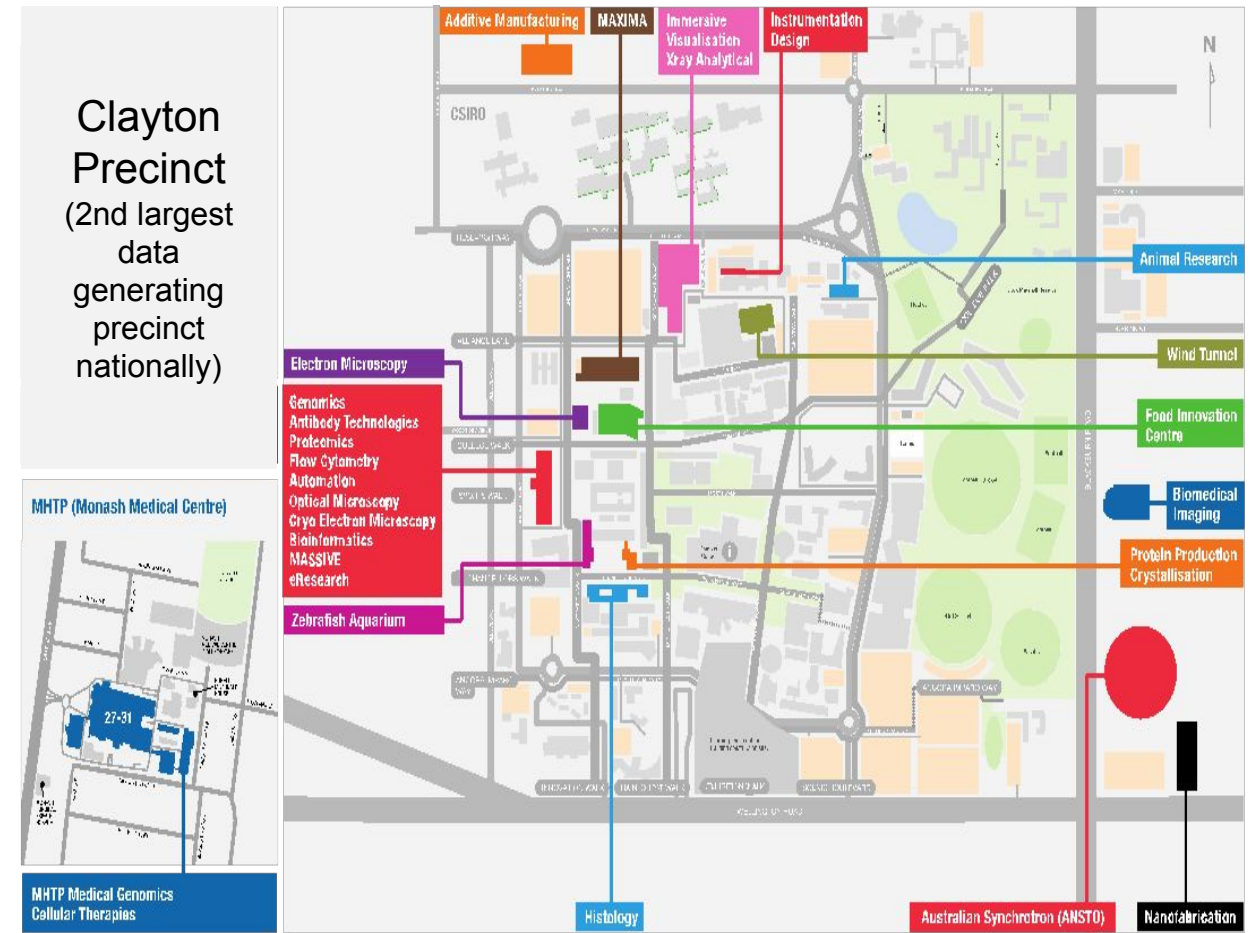
we are..

Partnership & collaborations

Data & Tools

Skills & Knowledge

we do..

1 Foundational AI and ML training programs

2 Communities of Practices around challenges and tools/methods

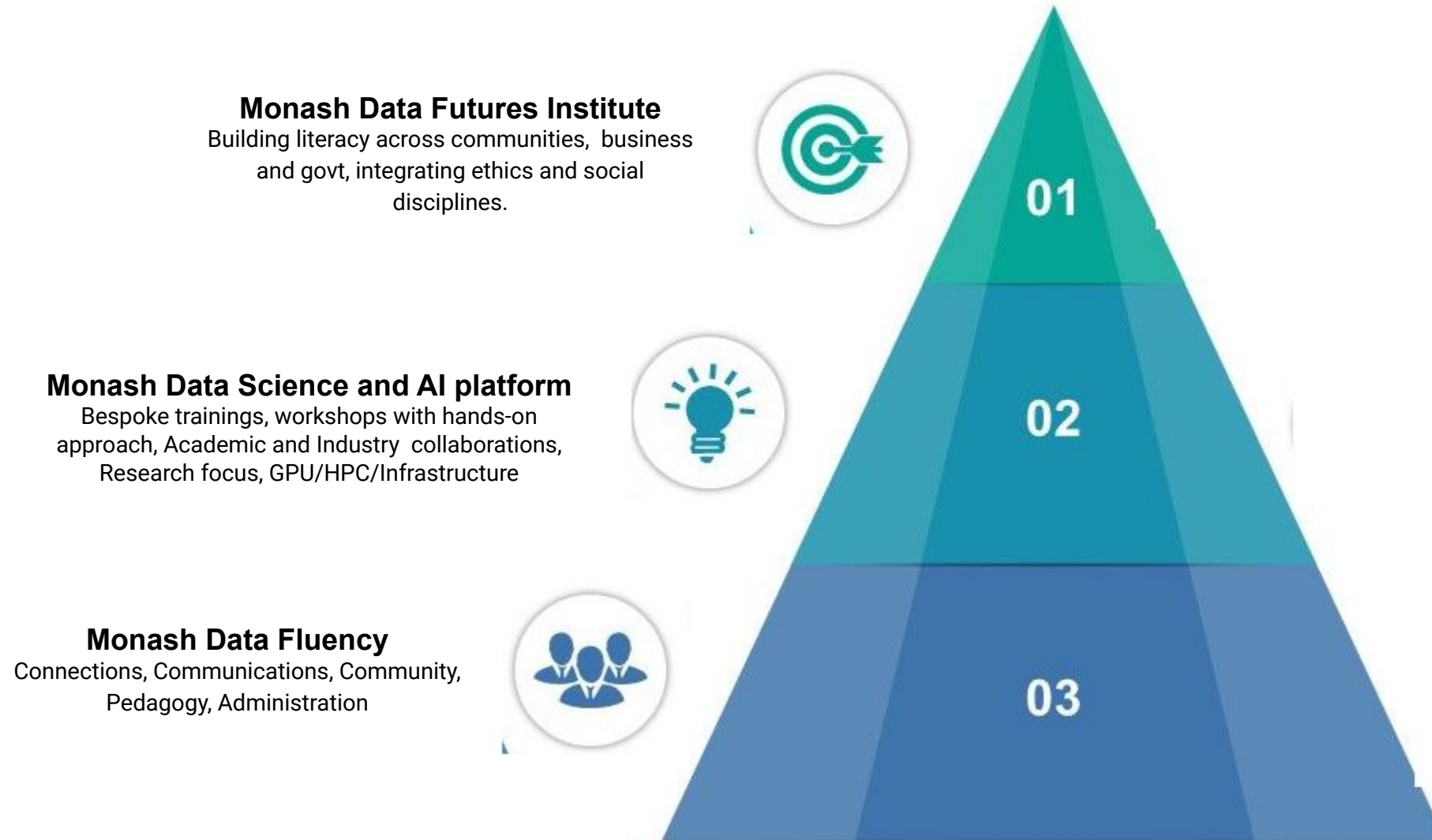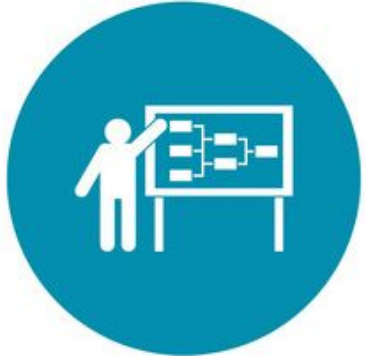**3** Demonstrative activities for specific challenges

4 Hands on codesign with researchers

Connecting Monash's training skills and opportunities

Monash Data Futures Institute
Building literacy across communities, business and govt, integrating ethics and social disciplines.

Monash Data Science and AI platform
Bespoke trainings, workshops with hands-on approach, Academic and Industry collaborations, Research focus, GPU/HPC/Infrastructure

Monash Data Fluency
Connections, Communications, Community, Pedagogy, Administration

01

02

03

MONASH University

6 Month Snapshot

Training hours: **55**

People trained: **400+**

Number of organisations: **~20** research, govt, and commercial institutions

Typical workshop enrolment: **100%+ waiting list**

Hours of development & delivery: **400+**

Training resources:

https://doi.org/10.26180/13100513

https://doi.org/10.26180/13100519

https://doi.org/10.26180/13100510

ARDC Platforms project - Environments to Accelerate Machine Learning Based Discovery

Partnership with UQ/QCIF

- Combined survey of gaps in skills and trainings for Data science and AI
- Provide seats to partners
- Share associate instructors/helpers/volunteers
- Develop combined training materials
- Publish a repository of open source trainings
- Train the trainer activities
- Establish a network of volunteers to deliver trainings at their local regions

National Workshops

Introduction to Deep Learning and TensorFlow

11 September 2020

Fully subscribed with waiting list

Attendees from ~20 research, govt, and commercial institutions

Deep Learning for Natural Language Processing

9 October 2020

Fully subscribed
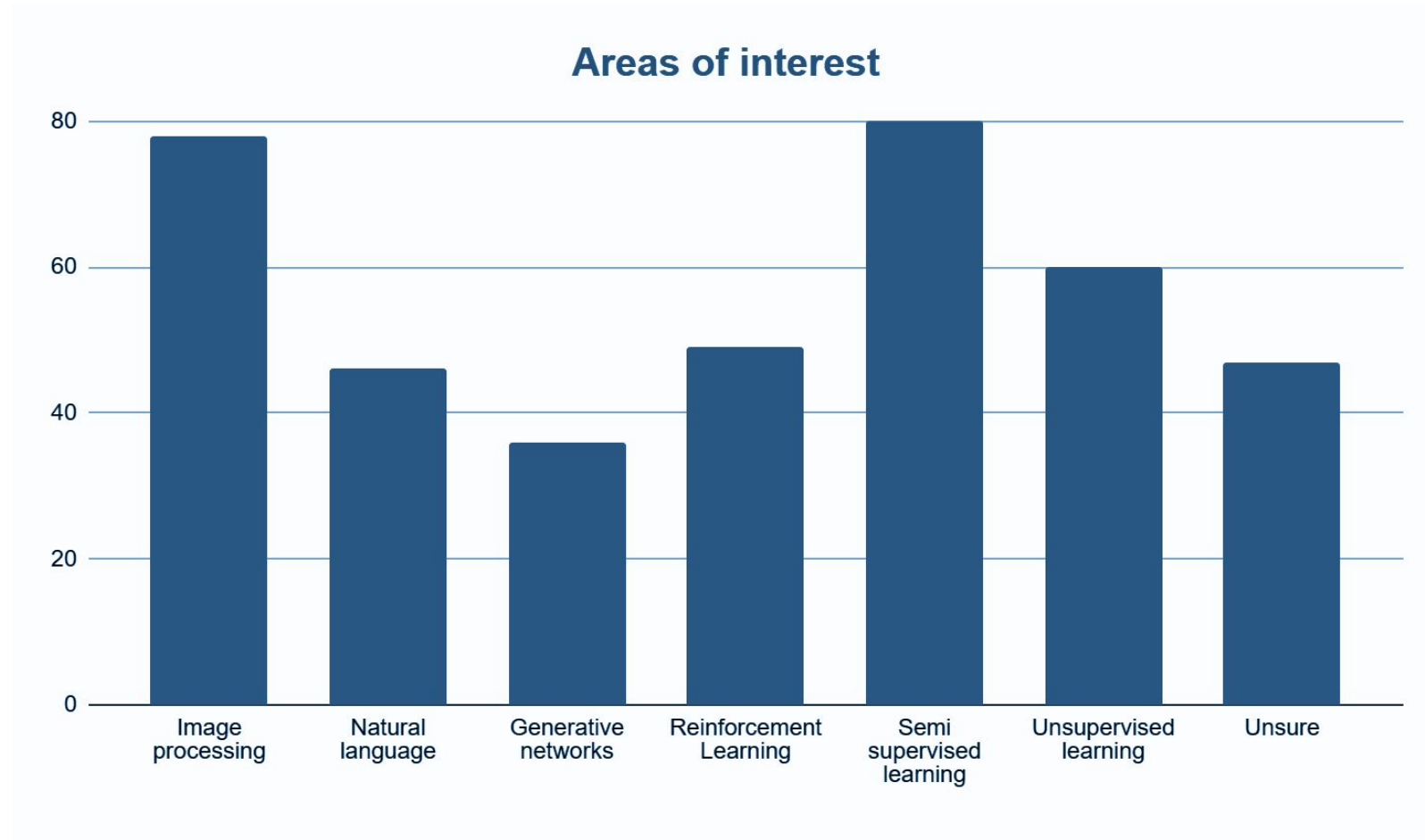
Many return sign-ups from first workshop

Data Visualisation and Storytelling

6 November 2020

Fully subscribed

Happening next week

MONASH University

As defined by the community

ARDC ML project - Environments to Accelerate Machine Learning Based Discovery

Soft launch of ML4AU

www.ML4AU.community

A national webpage that brings together machine learning resources, expertise, and connections for Australian researchers

We invite you to add your workshops and events to the site for community awareness

Communities of Practice

Natural Language CoP

- ○ Showcase event - introduction of NLP research in the community.
- ○ Connecting researchers to practitioner and fundamental NLP research experts
- ○ Exemplars - cogstack
- ○ Recurring community meetings to encourage community cohesion.
- ○ Slack channel to facilitate regular communication.
- ○ Direct hands-on technical support where suitable.

MONASH University
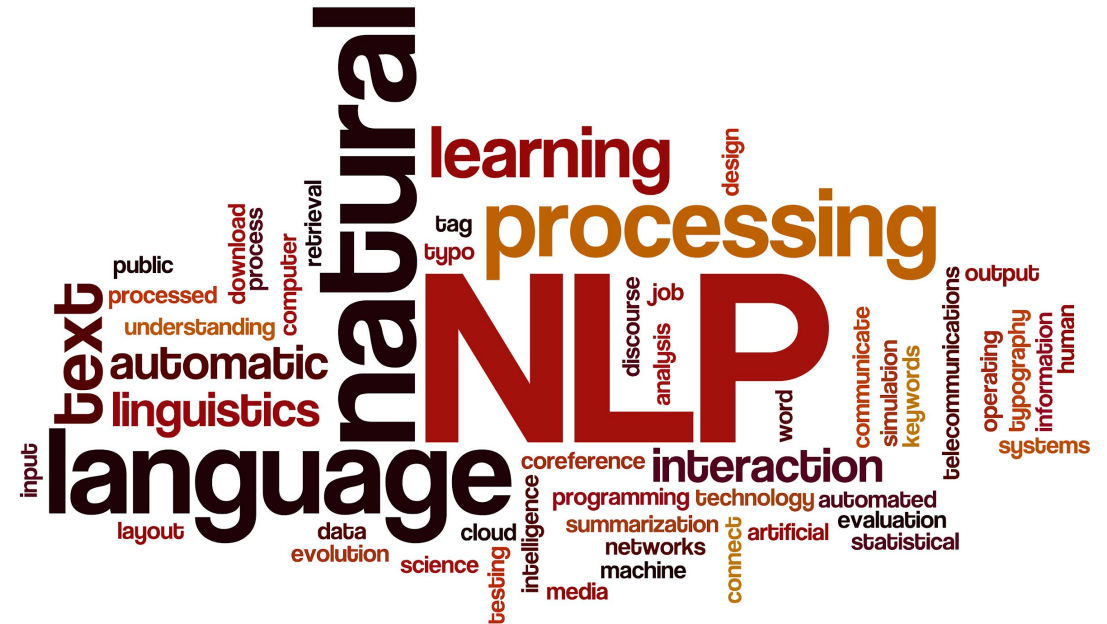
Industry partnership

Facilitating access to industry learning tools & certifications

Please contact us on

datascienceplatform@monash.edu

https://www.monash.edu/researchinfrastructure/datascienceandai/home