

Finnian Lattimore

Data Scientist

I combine in-depth knowledge of machine learning, developed through my PhD, with skills in applied statistics, data visualisation, distributed computation and large scale data munging & integration. I am highly proficient with the python data science stack (numpy, pandas, sklearn, matplotlib, jupyter, etc) and software development tools such as git and continuous integration. I am looking for a role where I can apply my technical skills and creative problem solving approach to tackle real problems that are in the public interest.

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🐙 github.com/finnhacks42

WORK EXPERIENCE

Principal Researcher (Machine Learning) Gradient Institute

12/2018 - Present

- Developed and applied ML based, causal inference methodology to help the ACT Education Directorate better understand factors impacting student and school outcomes.
- Led the creation of courses exploring the technical issues underlying how machine learning systems can fail and approaches to mitigate these problems to avoid unethical outcomes. Delivered these courses to over 100 data scientists and leaders across industry & government.
- Collaborated with the Human Rights Commission on a [technical paper](#) demonstrating how algorithmic bias arises and implications for mitigation.
- Initiated a causal inference reading group to extend expertise and build connections and between machine learners and economists working on policy questions.

Data Scientist Ambiata

12/2016 - 12/2018

- Built predictive models to optimise customer retention and engagement.
- Designed and deployed experiments to estimate the impact of marketing interventions.
- Engineered features on TB scale datasets using PySpark and custom tools.
- Visualised and explained modelling results and uncertainties to clients with varying data science backgrounds.

Consultant Data Scientist Industrie IT

04/2016 - 07/2016

- Geospatial analysis and visualisation.
- Probabilistic linking of disparate datasets.
- Simple Natural Language Processing.
- Developed a bulk geocoding tool using GNAF data.

Data Scientist Defence Department

01/2008 - 01/2014

- Identifying data analytics challenges.
- Developing analytics and optimising them to run on very large datasets.
- Designing, creating and supporting software to automate these techniques.

TECHNICAL SKILLS

Machine Learning ML at Scale Causal Inference
Reinforcement Learning Data Munging
Data visualisation Python Numpy Pandas
Scikit-Learn Git SQL/NoSQL Databases
AWS Google Cloud Vorpil Wabbit
Hadoop-Mapreduce Java Pyspark

SOFT SKILLS

Communicating technical work accessibly
Collaborating across disciplines Team work
Giving engaging talks Analytical thinking
Curiosity

EDUCATION

PhD, Machine Learning Australian National University

01/2014 - 12/2017

- Explored approaches to causal inference in machine learning and developed an approach to incorporate causal graphical models into reinforcement learning
https://bit.ly/lattimore_phd.

Bachelors (H), Physics Australian National University

02/2004 - 11/2007

- Awarded University Medal

INTERESTS

Sailing Tallships Reading Climbing
Tinkering with robotics and other projects in the Sydney Makerspace