# Priyam Dalmia

 Github ✉ Mail 🏠 Portfolio

**Software Developer**. *I am a qualified programmer with a keen interest in software development and data science. I bring 4+ years of experience from both the industry and the academia. I have worked in roles as a cloud developer, data scientist and an academic researcher. My skill-set includes Python and AWS cloud development, large scale data engineering, linux administration and R/Excel data analysis. I pursue active research in subjects like machine learning and RL, decision making and optimization, game theory and economics.*

## RESEARCH & PUBLICATIONS

**General causal estimation for cooperative multi-agent reinforcement learning.**
| *University of Melbourne, J. West, P. Dalmia. (ongoing)* — **AJCAI 2024**

**The RAS Battle: Tactical Adaptability as a Capability to scale combat mass.**
| *Australian Defence Force, K. Tollenar, J. Keane, J. West, P. Dalmia.* — Jan. 2024 – ongoing

**An experiment design protocol for reproducible reinforcement learning.**
| *University of Melbourne, J. West, P. Dalmia. (submitted)* — Jan. 2023 – Aug. 2024

**On the statistical efficiency of population-based training approaches.**
| *University of Melbourne, J. West, P. Dalmia. (submitted)* — Jan. 2023 – Aug. 2024

**An evaluation suite of predator-prey dynamics in multi-agent systems.**
| *University of Melbourne, J. West, P. Dalmia.* — **ICLR 2024**

## EXPERIENCE

**Research Assistant**
| *University of Melbourne, Melbourne.* — Oct. 2023 – ongoing
- Published work on experimental design and engineering problems in AI through the support of multiple research grants; actively conducted workshops and lectures in the same, utilizing advanced HPC tools and statistical methodologies.

**Software Developer**
| *1kind Pvt. Ltd., Melbourne.* — Aug. 2022 – Sep. 2023
- Led the development of an AWS-hosted trading platform, that included a back-end trading and hedging engine, a front-end dashboard and a data analytics pipeline; followed best practices around test driven development and CI/CD with Python.

**Jr. Data Scientist**
| *Probe Information Services, India.* — Jan. 2018 – Jan. 2020
- Collaborated on the development of large-scale ETL pipelines for financial services, abstractive text summarization models, and predictive analytics for credit risk assessment.

**Data Science Intern**
| *Melbourne Data Analytics Platform, Melbourne.* — Jan. 2022 – July 2022
- Mentored by multiple senior researchers, assisted in the development of large data science research projects developing sound practices in academic writing, publishing, empirical research and statistical analysis.

## EDUCATION

**Masters in Data Science**
| *University of Melbourne, Australia. (GPA: 3.8/4.0)* — Feb. 2020 – July 2022

**Bachelor of Mechatronics and Robotics Engineering**
| *Manipal Institute of Technology, India. (First Class with Distinction)* — Jan. 2016 – Dec. 2019

## References

**Joseph West**

  | *Associate Dean, University of Melbourne. (joseph.west@unimelb.edu.au)*

**Daniel Kovacs**

  | *CTO, 1kind Pvt. Ltd.. (daniel.kovacs@1kind.com)*