

Sai kumar Murali krishnan

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Machine Learning Engineer

EDUCATION

Monash University

Expected December 2023

Bachelor of Applied Data Science Honours

Melbourne, VIC

- WAM/GPA: 86
- Achievements: Dean's List Award for academic excellence, Summer and Winter Research scholarships

EXPERIENCE

Machine Learning Engineer Intern

November 2022 – February 2023

Canva

- Developed a debiasing framework for StableDiffusion, a text to image model
- Researched bias mitigation for harmful and nonrepresentative outputs from text to image models

Co-founder and Tutor

February 2020 – November 2022

Contour Education

- Prepared mathematics worksheets for over 100 students undertaking the VCE
- Creation of software in the Wolfram Mathematica language for over 300 students

Data Science Intern

July 2022 – October 2022

DiGiCOR

- Led a team of four to develop a dashboard for sales data analysis in Streamlit, pulling data from NetSuite's REST API to improve the productivity of the DiGiCOR sales team

Winter Research Assistant

June 2022 – July 2022

Monash University

- Devised a genetic programming framework for a game theoretic problem via simulation in Julia [here](#)
- Coordinated with a professor to investigate scientist journal dynamics using the above framework

Summer Research Assistant

November 2021 – January 2022

Monash University

- Wrangled commit diffs from over 30,000 deep-learning libraries using GitHub's REST API in Python
- Extraction, tagging, and inference of evolution of popular deep-learning libraries with spaCy

COMMUNITY & LEADERSHIP

President

March 2021 – Present

Monash Association of Coding (MAC)

- Taught 4 coding workshops totalling over 200 attendees in Python - FastAPI, discord.py, and web development
- Ran 15 weekly mock technical interviews with LeetCode in preparation for software-development roles
- Managed MAC x Hacksprint, a two-week hackathon with over 200 participants

PROJECTS

Mini Melbourne | *Fullstack, Live data, React, Mapbox, FastAPI*

GitHub - DevPost

- A live train map of Melbourne, built during UniHack 2022, winning the PwC Data Analytics prize
- Built using FastAPI for backend, serving real-time train data of upto 150 trains

SETool | *Data Visualisation, Python, Scraping, Dash, Plotly, Heroku*

GitHub - Site

- A web dashboard for comparing course reviews, used by over 1000 students

uwucode | *Language Design, Rust*

GitHub

- A toy programming language designed in Rust, with a homemade parser to learn about language design

TECHNICAL SKILLS

Languages: Python, C/C++, R, Rust, MATLAB, Java, Wolfram Mathematica

Libraries: Data science (Pandas, NumPy, SciPy, PyTorch, Seaborn, Streamlit), FastAPI, Dash/Plotly

Mathematics: Graph Theory, Computational methods, Optimisation and Operations Research, Linear Algebra, Calculus, Statistics