ROHAN PATEL

MACHINE LEARNING ENGINEER ⚲ PITTSBURGH, PA 📞 609-216-3653

DETAILS

Pittsburgh, PA
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LINKS

github.com/rhopatel

linkedin.com/in/rhopatel

rhopatel.github.io

SKILLS

Python

R

MATLAB

C++

Machine Learning

Tensorflow

PyTorch

NumPy

scikit-learn

Matplotlib

pandas

Git

Jupyter

Linux CLI

AWS

Docker

Jira

Agile Dev

PROFILE

Highly-driven new graduate with skills in data science and machine learning, seeking to make an impact in biotech and healthcare.

INTERNSHIPS

Bioinformatics Intern at BlueSphere Bio, Pittsburgh, PA
June 2022 — September 2022

- Developed a prediction pipeline identifying neoantigens in aberrantly expressed long-noncoding RNA using deep neural networks and other ML techniques
- Contributed to cutting edge technology for T-cell receptor (TCR) immunotherapy, more than doubled count of potential genetic targets
- Prototyped iRankExpress, a set of tools for stratifying neoantigens

Software Development Intern at MindTrace, REMOTE
May 2021 — September 2021

- Added video/audio processing capabilities to StrongView, a neurosurgical software which tests cognitive facilities during surgery to avoid complications
- Utilized industry-grade SWE tools and followed standard practices

PROJECTS

Neural Image Reconstruction Using Gabor Filter Regression
July 2021 — November 2022

- Investigated a Gabor-filter linear regression approach towards decoding images from highly sparse 2-photon calcium imaging data from the primate V1 cortex, as a research project in the Lee Lab for Biological & Machine Intelligence

NeuroTechX SC Hackathon: EEG-Enhanced Painting Software
September 2022 — Present

- Lead student teams to design & implement hands-free painting software, using ML to decode SSVEP brain signals and increase accessibility for motor-impaired users

EDUCATION

B.S. in Neuroscience + Statistics & Machine Learning, Carnegie Mellon University
September 2019 — May 2023

- Primary major in **Computational Neuroscience**
- Secondary major in **Statistics and Machine Learning**
- GPA: **3.65/4.0** (Dean's List)

LEADERSHIP

Vice President, Tartan Neurotechnology Club
January 2022 — Present

- Co-founder and exec board member of the neurotechnology club
- Liason and team coordinator in national student club hackathon

Fundraising Chair, Carnegie Mellon Rowing Club
January 2021 — December 2021

- Led record-breaking crowdfunding campaign through creative use of digital marketing, organized fundraising events to support activities