

Varsha Prasad

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Technical Skills: Python, C#, HTML, CSS, JavaScript, React.js, Arduino, MATLAB, R, UI/UX Design(Figma), Photoshop, DaVinci Resolve

Actionable.co – Machine Learning Specialist

June 2022 – Present

- Created and integrated sentiment analysis and keyword extraction using machine learning with client data

University of Waterloo – Research Assistant, Behavioural Analytics and Modelling (BAaM) Lab – Dr. McKay

May 2021 – Present

- Evaluating the processes used in the Chicago Police Department, Bureau of Detectives' Area Technology Centers; support centers that acquire and process digital evidence on a team led by Prof. McKay (UW)
- Part of a team that is using a combination of qualitative methods and data analytics (processing historical case data) to better understand the contribution of the centers in solving cases in the Chicago PD

UC Irvine – Intern - BioRobotics Lab – Dr. Reinkensmyer

July 2021 – Feb 2023

- Helped program a robot that measures ankle proprioception by a criss-cross test using C#
- Learned how to evaluate industry standards by reading research papers efficiently and performing a literature review
- Performed an Event-Related Potential (ERP) study to find a correlation between ankle movement and brain waves

The Knowledge Society – Student

September 2020 – June 2022

- 10-month human accelerator program that provides exposure to emerging technology and social entrepreneurship
- Provides mentorship for projects and problems and a global community of students and alumni

Hack the North 2021, 2022

Sept 2021, 2022

- Created a system that used a BCI to provide auditory feedback to focus and an accessible AR subtitle note-taking system

Machine Learning

May 2022

- [google's crash course on machine learning](#) and [datacamp.com](#)
- Used TensorFlow to run an ML model to do binary classification on the "Feeling Emotions" Kaggle dataset

Mind-Controlled Gaming System

Feb 2021

- Used an OpenBCI Ganglion Board and an EEG headset to detect the eye blinks of the user
- Connected the board to play the 'Geometry Dash' game using python and the Brainflow library

UN Consulting Challenge

March 2021

- Created and presented a solution providing free education to girls in rural areas in Sierra Leone using Radio & SMS Messages

Created a Neurofeedback Program to Enhance Meditation

April 2021

- Constructed an EEG headset used to detect different brain states with OpenBCI Ganglion Board, python, and Brainflow
- Used auditory feedback to influence users during meditation session

University of Waterloo – Intern

July 2021

- Investigated several sensor fusion techniques for post-processing biomedical signals from an EMG sensor w/Prof. Eugene Li

Instacart Consulting Challenge

Dec 2020

- Presented a deck with improvements of the UI/UX of Instacart's website for user experience

Education

International Baccalaureate High School Student – St. Francis Xavier Secondary School

Sept 2019 - June 2023