

Riya Kumar

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SKILLS & INTERESTS

Skills: Python, HTML, JavaScript, CSS, MySQL, C, Power BI, Solidity, Microsoft Azure, Dr.Racket, InDesign, Photoshop

EDUCATION

University of Waterloo

April 2026

- Candidate for Bachelor of Computer Science (Honours, Co-op)

University of Toronto Schools

September 2015 - June 2021

- Ontario High school Diploma & AP Scholar with Honours

WORK EXPERIENCE

Actionable.co

Machine Learning Developer

June - December 2022

- Developed a **sentiment analysis model** with **VADER** to classify qualitative data sets resulting in a simpler method for clients to understand feedback from workshops
- Assisted in a **key phrase extraction model** by clustering words commonly used together using **KeyBERT** and **RAKE** models which provided clients with a concise summary of workshop feedback

Algo8

Machine Learning Developer

May - August 2022

- Developed **EDA reports** on the distribution of power generated by solar panels over multiple days using **Matplotlib** and **Plotly** which was delivered to the client and used in model development
- Used **PowerBI** to analyze and visualize data for power generated at smaller time frames
- Worked on creating a **linear model** using the GHI of a solar panel and the amount of electricity produced
- Used **MySQL** to link the database and pull data using queries into **PowerBI** resulting in a faster analysis experience

KPMG

Blockchain Developer

July - August 2019

- **Deployed a blockchain platform** prototype for financial institutions to exchange and sign contracts over, allowing KPMG to govern the exchanges using **Solidity** and **JSON**
- Designed the smart contracts and online interface from scratch on Microsoft Azure's blockchain workbench
- Presented delivered the prototype to the national blockchain team
- Assisted in delivering proposal slide decks to the internal team

PROJECTS

Server Configuration Side Project

December 2022

- Worked on creating a LAN (learned about DHCP/Static IP addresses)
- Configuring RAID and customizing a logical drive on an HP DL380 G7 server
- Downloaded and configured VMWare using a bootable USB

Research Paper on Females in CS

September 2021 - May 2021

- Conducted a research study on the factors which drive females to pursue a career in computer science for an AP Research course (awarded the highest score, 5, from AP College Board)
- Designed and executed the study, **surveying 36 girls** both interested and not interested in the field of computer science, and **7 in depth- interviews** with women currently in CS or IT, performed **statistical analysis** upon collected data

Fraud Detection Machine Learning Program

March 2019

- Developed a tool that flags possible credit card fraud in a list of credit card transactions using unsupervised machine learning using Python with **Pandas** and **Tensor Flow** libraries