

### Curriculum/Program Overview:

We offer 2 different programs to help our students learn programming and data science/artificial intelligence. This current term will be our 1st semester where we cover Python programming. We'll teach students about the fundamentals of the Python programming language, preparing them for the 2nd semester which will cover AI topics, web scraping, machine learning, and more. One cool aspect about our program is that we provide students with a capstone project, allowing them to showcase their project for future employers. Our capstone project ideas range from designing a game to creating a website!

### Calendar:

<b>Date:</b>	<b>Time (Can be Changed):</b>	<b>Topics Covered:</b>
June 3rd	2:30 to 3:30	What is programming and why is it important?
June 10rd	2:30 to 3:30	How do we implement basic functionality in Python using variables and I/O?
June 17th	2:30 to 3:30	How does control flow work in Python (if, loops, for)?
June 24th	2:30 to 3:30	What are functions and why do we need them?
July 1st	2:30 to 3:30	What are data structures and how can we combine data together for efficiency?
July 8th	2:30 to 3:30	What is memory in Python and why should we care?
July 15th	2:30 to 3:30	How can we use Python to analyze large datasets?
July 22nd	2:30 to 3:30	Capstone Project

### Materials Needed:

- Personal laptop (preferably) or phone w/ school Chromebook.

### FAQ's:

Will this be free or for a fee?

- The course is completely free for students!

How many kids will there be?

- While we are teaching group lessons through zoom, we plan to set aside time for one-on-one work to support students individually.