



**SUMMER  
SPRINGBOARD**  
Look Inward. Go Upward.

# Middle School Online Artificial Intelligence Infosheet

New student admissions for  
Summer 2023 are open.



## Program Highlights

- Explore how machines learn while examining the various applications being used in the field of Artificial Intelligence.
- Take a deep dive into the four main types of artificial intelligence learning - supervised learning, unsupervised learning, semi-supervised learning, and reinforcement learning.
- Gain the skills necessary to train a computer to independently recognize basic images by using bit patterns from large data sets.
- Learn how technology companies are harnessing the power of large datasets through the creation of a classification algorithm to train the machine to begin identifying the desired outcomes.
- Practice algorithm testing to ensure classifications are functioning as students have designed and accuracy procedures are achieved.



## Academic Program Overview

Artificial intelligence is revolutionizing the way data is used to identify problems and provide possible solutions. This technology is being used in hundreds of ways around us. Students in this class will learn about machine learning and how it is being used as a disruptive innovation technology in just about every industry that exists. Students will explore how the four main types of machine learning are being used in business today. The students will work to gain the skills necessary to utilize large datasets to train a machine to independently recognize basic images by using bit patterns to identify key attributes within a certain margin of accuracy. Students will then analyze how accurate the algorithm they created will be based on trial and error while testing the results their algorithms have returned.



## 2023 Dates

Session 1: July 3 - July 7: 9:00 AM - 12:00 PT /  
12:00 - 3:00 PM ET

# Instructors

## Dr. Farhad Rostamian

Dr. Farhad Rostamian is currently a professor at UCLA teaching courses at both Anderson School of Management and Samueli School of Engineering. Prior to this academic position, he spent over 25 years making highly innovative and iconic products such as the pill camera (with Given Imaging), the camera for Apple's 1st iPhone (working directly with Steve Jobs), and sensors for disposable insulin pumps (with Medtronic).

Video: Learn more about the instructor, Farhad Rostamian

# Payment Information

- Price: \$998
- Application fee: \$99 (mandatory, non-refundable)
- Emergency Medicine & Pre-Med course supplement: \$250 tuition (mandatory)



## Course Structure

There are five 3-hour class sessions over the one-week course. During the week, students have class from 9am-12pm, Monday - Friday.

Students will spend time in groups and also perform individual contributions. Their course will culminate in a final presentation or project that provides an opportunity to demonstrate their skills acquired in the course.



## Program Information

This program is open to any middle school student who will be entering 6th, 7th, or 8th grade in Fall 2023. Each session is limited to 35 students per track. Classes will be held via Zoom and facilitated in real-time by the instructor and a classroom coordinator. Upon completion of the course, students will receive a Certificate of Completion from Summer Springboard.

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