Introduction to Artificial Intelligence (AI)

Come explore the amazing world of Artificial Intelligence (AI)! In this fun class, you'll find out what AI is and how it helps us do cool things—like making art, playing games, and even creating music. We'll learn how AI can be super helpful, but also talk about the things we need to be careful about. Then get ready for some awesome activities: show off your AI-created art, see if an AI can guess your doodles, have a mini concert of AI-made songs, create silly short videos, and play games powered by AI. Join us to see how AI is changing our world—and have a blast doing it! More information can be found at https://lucasraicu.github.io/teaching/ai.pdf.

Learning Objectives:

- Explain What AI Is: In your own words, describe AI and how it's different from regular computer programs.
- Spot AI in Real Life: Find examples of AI around you (like voice assistants, cool apps, or self-driving cars).
- Create and Play with AI: Make your own AI art and music, and see if an AI can guess your doodles!
- Understand AI's Good and Not-So-Good Sides: Talk about how AI helps us and why we need to use it carefully.
- Show and Tell: Present your AI creations (art, music, videos, games) to the class and explain how you made them.

Pre-requisites:
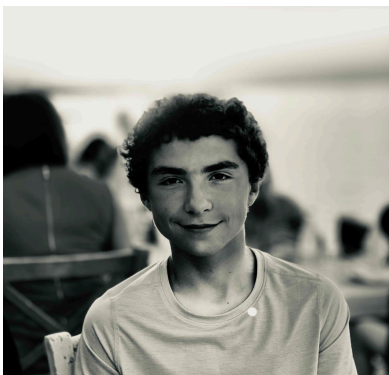- No computer science or coding experience needed

Target Audience:
- 3rd grade through 6th grade

Proposed time:
- 90 minutes

Instructor:
- Lucas Raicu, Junior at Glenbrook South High School (GBS)

Lucas is a junior at Glenbrook South High School (GBS). He has taken a rigorous college preparatory curriculum that includes Algebra 2, Precalculus, Advanced Placement (AP) Calculus, Biology, Chemistry, Physics, Computer Science Honors, AP Computer Science, and Foundational Artificial Intelligence. He is aiming to pursue an undergraduate degree in computer science with the ultimate objective of earning a PhD and becoming a university professor. He is deeply passionate about music, sports, and academics. He holds prominent roles in the soccer and tennis program, while also leading the symphonic orchestra as the co-assistant concertmaster. He finds joy in playing chess and ping-pong with his friends, as well as skiing in the winter. Even though he is only sixteen years old, he always strives to become the best version of himself.