

AI Basics: From Predictions to Creations

Activity Plan

Overview

Participants explore the fundamentals of artificial intelligence by learning the difference between generative and predictive AI, experiencing real-world examples, and creating their own image classification model with Teachable Machine. They leave with a stronger foundation in what AI is, how it works, and how it creates outputs.

Recommended Audience: Adult learners (general public, community members, professionals)

Activity Length: 60 minutes

Experience Level: Beginner

Technical Requirements

- Device Requirements
 - 1 computer per participant (Mac, PC, Chromebook all work great!)
 - Online connectivity at a minimum of 10Mb/sec
 - Modern browsers on computers
 - Chrome
 - Firefox
 - or Safari Version 15.1 or higher
- Tool Access
 - Teachable Machine (<https://teachablemachine.withgoogle.com/>) – no account required to train/test models
- Note on User Accounts:
 - Adults do not need an account to complete this activity. However, participants can only save/return to their work later if they make an account before starting the Hour of AI.

Activity Materials

All resources are provided directly in the course: codehs.com/hourofai/predictions

Participants will move through:

1. Content Pages explaining what AI is, with examples of generative and predictive AI
2. Exploration Activities using Google AI Experiments (e.g., Quick, Draw! and XYZ Toy)
3. Content Page introducing large language models (LLMs)
4. Prototype Activity using Teachable Machine to train a simple classifier (e.g., Apples vs. Bananas)

Content Standards

This activity supports the following AI literacy competencies from the CSTA K–12 Artificial Intelligence Standards (2021):

- **AI-04.A-ic.1:** Recognize AI's role and influence in different contexts.
- **AI-04.B-ic.1:** Connect AI's social and ethical impacts to its technical capabilities and limitations.

Activity Instructions

- Before the Hour of AI:
 - Review the technical requirements for this activity
- During the Hour of AI:
 - Direct participants to codehs.com/hourofai/predictions
 - Allow participants to work through Hour of AI at their own pace
- After the Hour of AI:
 - Did you know that CodeHS offers K-12 AI curriculum, PD for teachers, and classroom tools? Go to codehs.com/ai to learn more about how you can continue learning about AI.

Need Help?

Email hello@codehs.com to get in touch with our support team!