

1. What We Are Doing

We are creating an interactive AI Doodle Classifier game that lets participants draw anything they want and watch a machine learning model guess what they drew in real time.

Participants will:

- Draw using a mouse, touchscreen, or drawing pad.
- See the computer instantly predict what the drawing represents.
- Get the top 3 guesses with confidence scores.
- Try multiple doodles like animals, shapes, vehicles, and objects.

The stall is fast, playful, and visually engaging showing kids how AI, coding, and pattern recognition work in a simple and fun way.

2. Requirements

2.1 Hardware Requirements

- Laptop/PC
 - Mouse or touchscreen tablet
 - External monitor/TV (optional but boosts engagement)
 - Table + stall space (approx. 2m × 2m)
 - Extension box + power cables
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2.2 Software Requirements

- Python
 - Drawing interface (Tkinter/Pygame/OpenCV canvas)
 - ML model trained on QuickDraw dataset
 - TensorFlow or PyTorch
 - Simple UI showing:
 - Drawing area
 - AI's top predictions
 - Reset/clear button
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2.3 Space & Setup Requirements

- 1× laptop table
 - 1× external display (optional)
 - Drawing pad/mouse area for kids
 - Posters explaining:
 - How the AI guesses
 - Examples of doodles to try
 - 1–2 volunteers to help kids start drawing
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2.4 Manpower Requirements

- 3-4 volunteers will be procured by the coding club for management of the event.