```
import React, { useState, useRef } from 'react';
import * as tf from '@tensorflow/tfjs';
import * as handTrack from 'handtrackjs';
import { Canvas } from '@react-three/fiber';
import { OrbitControls } from '@react-three/drei';
import { Text } from '@react-three/drei';
const AlMagicPen = () => {
 const [text, setText] = useState(");
const videoRef = useRef(null);
 const canvasRef = useRef(null);
 const modelRef = useRef(null);
const loadModel = async () => {
  modelRef.current = await handTrack.load();
  handTrack.startVideo(videoRef.current).then(status => {
  if (status) {
   runDetection();
  }
 });
};
 const runDetection = async () => {
  if (modelRef.current) {
  const predictions = await modelRef.current.detect(videoRef.current);
  drawCanvas(predictions);
```

```
requestAnimationFrame(runDetection);
 }
};
const drawCanvas = (predictions) => {
 const ctx = canvasRef.current.getContext('2d');
  ctx.clearRect(0, 0, ctx.canvas.width, ctx.canvas.height);
  predictions.forEach(pred => {
  ctx.strokeStyle = 'red';
  ctx.lineWidth = 2;
  ctx.strokeRect(pred.bbox[0], pred.bbox[1], pred.bbox[2], pred.bbox[3]);
  setText('Al Detected: ' + pred.label);
 });
};
return (
 <div className="flex flex-col items-center justify-center h-screen bg-gray-900 text-
white">
  <h1 className="text-2xl font-bold mb-4">AI Magic Pen</h1>
  <video ref={videoRef} width="640" height="480" autoPlay className="border-2 border-
blue-500" />
  <canvas ref={canvasRef} width="640" height="480" className="absolute top-0 left-0"</pre>
/>
  <button onClick={loadModel} className="bg-blue-500 text-white px-4 py-2 mt-4</pre>
rounded">
   Start Al Detection
  </button>
```