

## **1. What is the role of Express.js in the React–Node–Python architecture?**

Express acts as the middleware that receives frontend requests, executes the Python ML script, and returns predictions.

## **2. Why should the Python script return output only in JSON format?**

Node.js expects structured data. Any extra text breaks parsing.

## **3. What is the purpose of using spawn() instead of exec() in Node.js?**

spawn handles large output streams efficiently and is safer for real-time data.

## **4. Why is CORS required when connecting React and Express?**

React and Express run on different ports, and browsers block cross-origin requests without CORS.