

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.