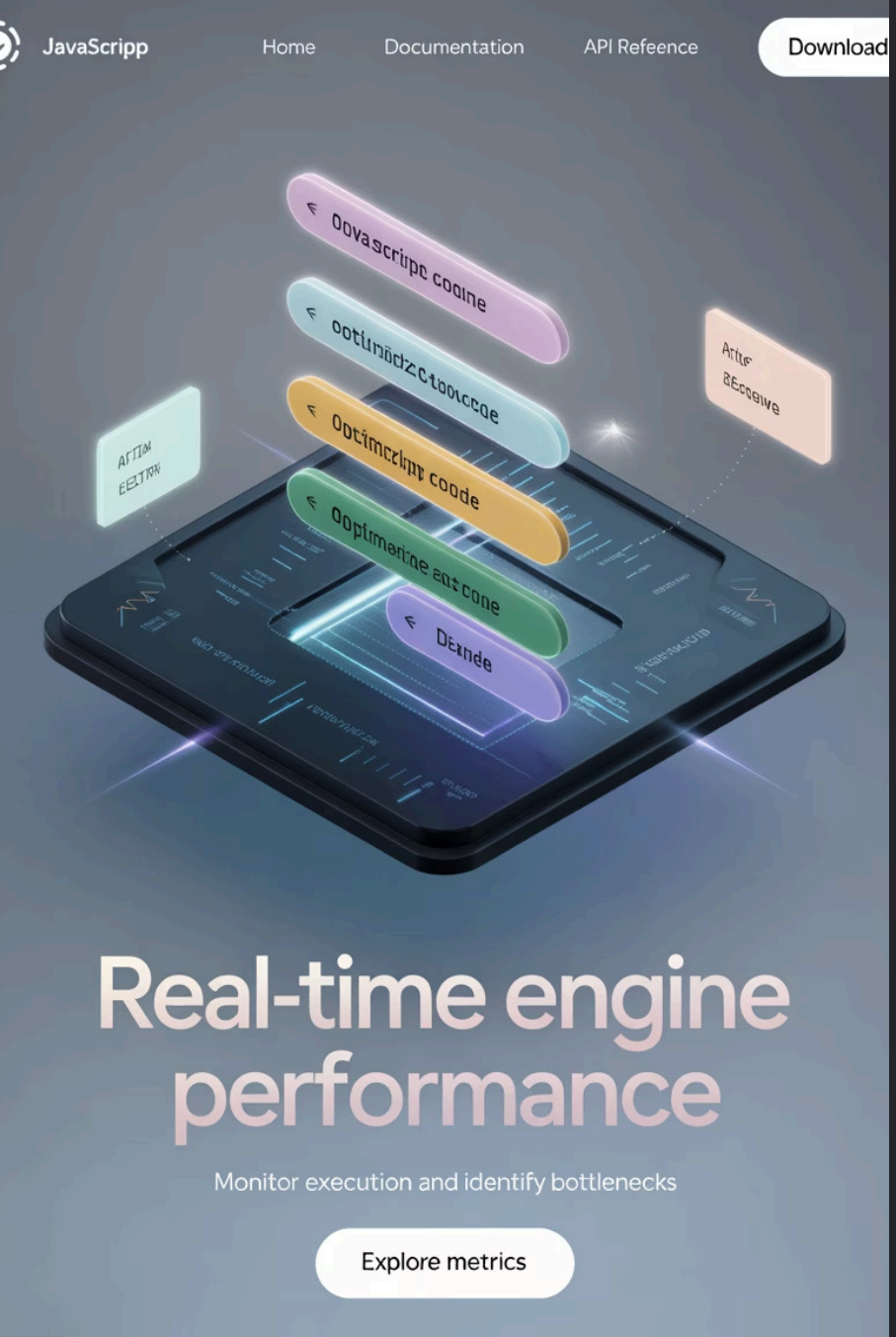

Introduction to JavaScript Engines

JavaScript engines power the execution of code in browsers and runtime environments. They're essential for modern web apps and Node.js.

Developed by major browser vendors, these engines translate human-readable code into machine instructions.

by Naresh Chaurasia

What is a JavaScript Engine?

A JavaScript engine converts code into machine-executable instructions. It acts as both interpreter and optimiser.

This technology enables cross-platform compatibility through browsers, regardless of the underlying hardware.

Major JavaScript Engines

V8

Powers Google Chrome and Node.js. Known for exceptional performance and memory handling.

SpiderMonkey

Mozilla Firefox's engine. The first JavaScript engine ever created, now highly evolved.

JavaScriptCore

Safari's engine, also known as Nitro. Optimised for Apple's ecosystem.

Chakra

Legacy Microsoft Edge engine. Newer Edge versions now use Chromium's V8.