■ React 20-Day Roadmap (Beginner → Advanced)

Week 1 - React Basics (Days 1-5)

- Day 1: Prerequisites Refresh ES6+ JS Recap, Arrays, Destructuring, DOM basics
- Day 2: Intro to React What is React, Setup (Vite/CRA), JSX, Components
- Day 3: Props & Children Passing props, children, reusable components
- Day 4: State & Events useState, Event handling, Two-way binding, Conditional rendering
- Day 5: Lists & Keys Rendering with .map(), Keys, Mini project: Todo List

Week 2 – Core React (Days 6–10)

- Day 6: Component Communication Lifting state, functions as props, controlled inputs
- Day 7: useEffect Hook Side effects, Fetch API, Cleanup, Mini project: Weather App
- Day 8: React Router Setup, Routes, Link, useParams, Nested routes, 404 handling
- Day 9: Context API Provider, useContext, Avoid prop drilling
- Day 10: useReducer & Custom Hooks useReducer vs useState, Custom hook (useFetch), Blog App

Week 3 – Intermediate to Advanced (Days 11–15)

- Day 11: Forms Controlled inputs, Validation, React Hook Form/Formik
- Day 12: Refs & Memoization useRef, useMemo, useCallback, React.memo
- Day 13: Advanced Patterns HOC, Render Props, Compound Components
- Day 14: Error Boundaries & Portals Error handling, Portals, Suspense intro
- Day 15: Mini Project Ecommerce Cart App (Products, Cart state, useReducer/Context)

Week 4 - Ecosystem & Deployment (Days 16-20)

- Day 16: Styling CSS Modules, Styled Components, Tailwind CSS
- Day 17: State Management Redux Toolkit, Store, Slice, Async Thunks
- Day 18: Data Fetching Fetch vs Axios, React Query, Caching
- Day 19: Testing Jest + RTL, Snapshot testing, Component test
- Day 20: Final Project & Deployment Dashboard App, Deploy on Vercel/Netlify