Assignment – AI & Full Stack Development Intern

Objective:

Project: Health Insight Dashboard – Vaccine Market Analytics Platform

Build a full-stack web dashboard to visualize **synthetic global vaccine market data** with filters, KPIs, and charts.

Task Overview:

Create a dashboard that lets users:

- Filter data by **region, brand, and year**
- View KPIs (CAGR %, market size, avg. price)
- Explore **5+ interactive charts**

Core Requirements:

Backend (Node.js + Express / FastAPI)

- APIs:
  - /api/vaccines → vaccine data (supports filters)
  - /api/summary → KPI metrics
- Data from CSV/JSON
- Modular structure (routes, controllers, utils)

Frontend (React / Next.js)

- Sidebar + filter dropdowns
- KPI cards & charts (Bar, Line, Pie, etc.)
- Responsive design, light/dark mode
- Fetch data dynamically from backend

Deployment

- Frontend: Vercel/Netlify
- Backend: Render/Railway
- Add README with setup, URLs, and screenshots

Evaluation (100%)

Category	Weight	Focus
Frontend	30%	UI, responsiveness, clean design
Backend	30%	Working APIs, filters
Integration	20%	Smooth data flow
Code Quality	10%	Structure, clarity
Documentation	10%	README, links

Deliverables:

- GitHub repo link
- Deployed frontend & backend URLs

Bonus: Add pagination, sorting, or small GenAI insight.