Final Build Specification: CDC Diabetes Analysis

1. Visual Theme & Branding

- **Canvas Background:** Off-White (#F4F7F6)
- **Sidebar Navigation:** Charcoal (#333333)
- **Chart Containers:** White cards with 10px rounded corners and subtle drop shadow.
- **Data Palette:**
  - **No Diabetes:** Steel Blue (#4A90E2)
  - **Prediabetes:** Amber (#F5A623)
  - **Diabetes (Alert):** Deep Crimson (#D0021B)

2. Page-by-Page Logic

Page 1: Landing Page

- **Layout:** 4 high-vibe vertical tiles (Steel Blue, Navy, Teal, Deep Purple).
- **Header KPIs:** "254K" and "22" positioned as floating Charcoal text above the 4th tile.
- **Action:** "Open Module" buttons mapped to their respective pages.

Page 2: Executive Overview

- **Header KPIs:** Total Participants, Diabetes Prevalence, Prediabetes Rate, Avg. BMI.
- **Charts:**
  - **Donut:** Distribution of Diabetes Status across Population.
  - **Clustered Bar:** Total Participants by Gender.
  - **Bar:** Total Participants by Education Level.
- **Slicers:** Age Group, Gender, Annual Income, Education Level.

Page 3: Risk Factor Analysis

- **Top KPIs:** High Blood Pressure Rate, High Cholesterol Rate.
- **Charts:**
  - **Matrix:** Diabetes Prevalence by BMI and Age Group.
  - **Clustered Bar:** Total with High BP and Total with High Cholesterol by Diabetes Status.
- **Slicers:** Smoking Status, Heavy Drinker, Physical Activity.

Page 4: Quality of Life & Access

- **Top KPIs:** Cost Barrier Rate, Insurance Coverage %.
- **Charts:**
  - **Matrix:** General Health Rating by Diabetes Status.

- ○ **Grouped Bar:** Avg. Mentally Unwell Days and Avg. Physically Unwell Days by Diabetes Status.
  - ○ **Stacked Bar 1:** Total Participants by Diabetes Status and Skipped Doctor Due to Cost.
  - ○ **Stacked Bar 2:** Total Participants by Diabetes Status and Has Health Insurance.

Page 5: Predictor Tool (AI)

- **Gauge Chart:** Estimated Diabetes Prevalence for Selected Profile.
- **AI Visual:** Key Factors Influencing Diabetes Diagnosis (Analyzes "Diabetes").
- **Top Segments:** Enabled to show overlapping risk clusters.

3. Global Navigation

- **Home Icon:** Fixed in the Bottom-Left Corner of the Charcoal Sidebar on all data pages.
- **RESET ICON:** FIXED IN THE BOTTOM-LEFT BESIDE THE HOME ICON ACROSS ALL PAGES.
- **Action:** Navigation link back to the Page 1 Landing Page.