**COS30045**

**Data Visualisation**

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Project Stand-Up 3

**1. Progress Since Last Standup:**

* **Data Collection & Processing**:
  + Collected relevant datasets from OECD on chronic diseases (e.g., diabetes, asthma) and associated risk factors from 2000-2020.

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* + Performed data cleaning and organization, including standardizing entries by year, country, and disease incidence to maintain consistency across visualizations.

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* **Visualization Progress**:
  + **World Map**: Developed an interactive global map visualizing hospital admissions for diseases like asthma and diabetes. Added toggling options and designed a color-coded legend.

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* + **Cancer Survival Chart**: Created a filterable line chart for cancer survival rates by country and type, with a dropdown to allow selection by country.

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* + **Donut Charts for Health Risk Factors**: Built three donut charts (for alcohol consumption, tobacco use, and obesity levels), with interactive hover effects and details on each segment.

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* **Process Book**:
  + Added initial sections covering data collection and data processing steps.
  + Documented visualization design decisions, including reasons for specific map and chart types and interactive features.

**2. Estimated Contribution**

* Since this is an individual project, the following represents my solo effort:
  + **Data Work**: Approximately 20 hours (50% of total work time).
  + **Visualization Design**: Roughly 10 hours (25% of total work time).
  + **Process Book Writing**: Around 6 hours (15% of total work time).
  + **Coding**: About 4 hours (10% of total work time), including scripting interactions and implementing hover effects for enhanced user engagement.

**3. Plans Before Next Stand-Up**

* **Finalizing Visualizations**:
  + Complete interactive elements, particularly toggling between disease types on the world map.
  + Refine hover effects on the donut charts to provide a clearer view of values.
  + Adjust chart labels and legends for improved readability.
* **Website Development**:
  + Integrate visualizations into the website, ensuring a user-friendly layout and responsive design.
  + Test across different browsers for compatibility.
  + Website hosting
* **Process Book Updates**:
  + Add sections on design justifications, including alignment with data visualization principles and interaction choices.
  + Incorporate relevant literature to support design and interaction decisions.

**4. Obstacles**

* **Data Completeness**:
  + Some data gaps exist in OECD datasets, which could affect visual continuity. Considering supplementary data sources to fill in missing values.
* **Visualization Complexity**:
  + Designing visualizations that effectively communicate complex relationships between diseases and risk factors remains a challenge.