Manufac Analytics Private Limited

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Web Developer Interview

Data Visualization Task

Languages/Libraries/Tools to be used:

1. TypeScript
2. React via CRA
3. Yarn | Note: NPM must not be used in place of Yarn.
4. ECharts for React

Task description:

1. You are expected to implement a **scatter plot** and **bar chart** using React and ECharts for React. The entire source code should be in TypeScript. For learning more about ECharts, this link can also be useful.
2. Wine Data Set to be used for visualization.
3. Scatter plot to be drawn between “Color Intensity” on the horizontal axis and “Hue” on the vertical axis. The axes should be labeled.
4. Bar chart to be drawn showing the “Alcohol” category on the horizontal axis and the **average** of “Malic Acid” for each class on the vertical axis. The axes should be labeled.
5. In the final product, upon running *yarn start*, the browser should open with the desired charts rendered.
6. No other helper libraries like Bootstrap, jQuery, etc. should be used.
7. No analysis of data is needed. Only the charts should be implemented.
8. JavaScript is also allowed if TypeScript is not known to you.
9. Remove all the unused code (JS, CSS, Test Files, etc) and libraries from the CRA template.

Evaluation criteria:

1. Both the charts should be rendered properly. Weight: 50%
2. The app should be mobile-responsive. Device widths to be tested are iPhone 5, iPhone X, iPad, iPad Pro, and general Laptops. Weight: 25%
3. Clean code, modularity, folder structure, quality of comments (to explain code wherever needed). Weight: 20%
4. README should include the screenshots of both charts. Weight: 5%
5. Bonus for using TypeScript. Weight: 15%

How to submit?

Please submit a GitHub link to your project with clear instructions on how to build/run/start the project in the README.md. You can email that link to careers@manufacanalytics.com.

The submission deadline is 4 days starting from the day you receive the assignment. Say, if you receive your assignment on 1st July 2022, please submit the assignment solution by 5th July 2022 midnight.