



Kevin Raber

Data Scientist, Chevron Technical Center

Company Background:

Chevron is one of the world's leading integrated energy companies. We believe affordable, reliable, and ever-cleaner energy is essential to enabling human progress. Chevron produces crude oil and natural gas; manufactures transportation fuels, lubricants, petrochemicals, and additives; and develops technologies that enhance our business and the industry. We are focused on lowering the carbon intensity in our operations and seeking to grow lower carbon businesses along with our oil, products, and natural gas business lines. We aim to lead our industry in health, safety, and environmental performance. The protection of people, assets, communities, and the environment are our highest priority. **Team Size:** 3-4

Project Summary:

Starting in 2014, Chevron has hosted internal, Kaggle-style, data science challenges, allowing employees to practice and grow their data science skills. Each challenge has focused on business problems from different areas across the Chevron value chain. To support these challenges, a custom site was built to manage participant submissions and share the leaderboard of participant scores. As it exists today, the website is outdated, has limited functionality, and needs to be replaced.

We are requesting a new website, utilizing latest enterprise-standard languages and tools for the front-end and back-end development. A back-end data architecture is also needed to support the new site and replace the current flat file system. New site functionality requirements include administrative as well as user-based improvements along with increased flexibility for us to change the types of challenges we run. An additional component may include continuous integration and continuous delivery (CI/CD) pipeline development in Azure to provide automated deployment of site code and future updates.

Skills/Technologies:

A background in developing a full stack web application, using Angular, docker, modern database platform, etc. would be beneficial for tackling this project. An interest in how to score and compare data science models would also be beneficial.

Benefits:

Students will gain experience working with a modern tech stack, building an end-to-end solution that is portable, reusable, and provides a high-quality user experience.

Work Location:

Work can be performed anywhere but may require specific levels of access or be completed using specific devices that would be provided, if required.

Additional Information:

Students may be required to sign a contract with Chevron prior to starting this work.

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