Career Readiness Online Challenge

Members: Akshita, Navya, and Ayan
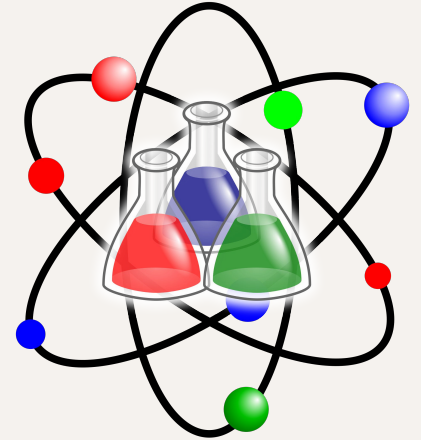From: North Carolina
Team: 9555C

Introduction to Data Science

Data science is like a super helper in many areas. It helps doctors find patterns to keep us healthy, assists businesses in making smart choices, and even aids police in predicting and stopping crimes. In school, it makes learning special for each student, and in nature, it helps us take care of the environment. Banks use it to prevent bad activities with our money, and it makes traffic flow better in our cities. Scientists use data science to make awesome discoveries, and on social media, it helps show us things we like. So, data science is like a superhero for making everything work better and smarter!

Why we chose data science

We chose data science because one of our uncles is a data scientist and that data scientist is a very important role in life. Data science is crucial in today's world as it empowers us to extract meaningful insights from vast amounts of information. Data science is a positive change in innovation.
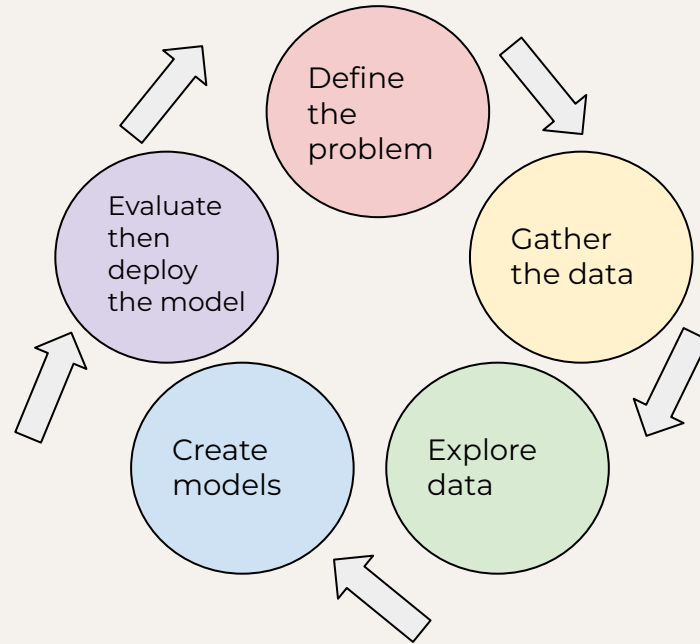
What is Engineering Design Process (EDP)

The Engineering Design Process (EDP) is like a step-by-step plan that engineers use to create new things or solve problems. First, they figure out what the problem is or what they need to make. Then, they learn as much as they can about it. After that, they come up with lots of ideas and pick the best one. They draw or describe the idea in more detail, like a blueprint. Next, they build a model or prototype to test how well it works. If it needs fixing, they go back and make changes. This goes on until they're happy with how it works. Finally, they make the real thing and tell others about it. The process is like a loop, and they can go back and make improvements if needed.
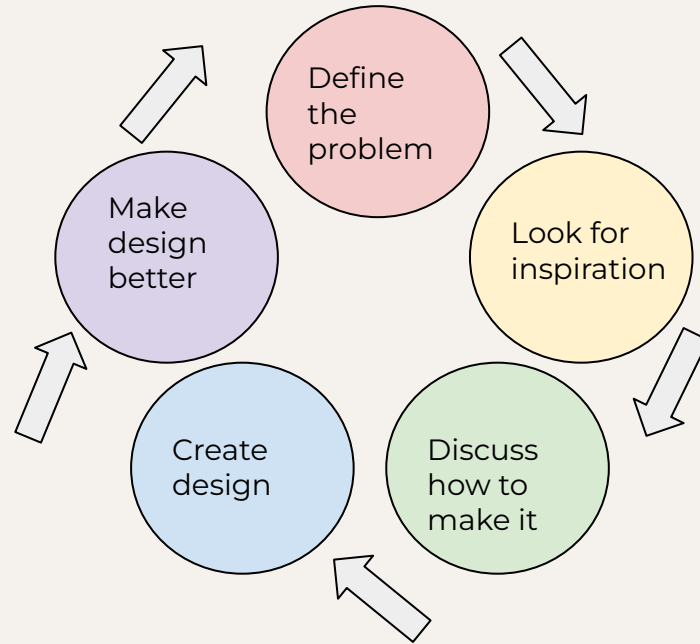
How do Data Scientists use the engineering design process?

1. Define the problem
2. Gather data (also clean it)
3. Explore data
4. Create models
5. Evaluate then deploy the model

How do we use the engineering design process?

1. Define the problem
2. Look at other peoples designs for inspiration
3. Discuss how to make it
4. Create design
5. Make the design better

How does VEX Robotics prepare you for a future career?

VEX Robotics prepares us for our future career by training us to be familiar to programming, teamwork, leadership, time management and critical thinking. Vex Robotics helps with STEM careers, providing basic knowledge of engineering design process.