

Roche



Roche is a Swiss multinational healthcare company that is the world's largest biotech company. They are a leading provider of in vitro diagnostics, a global leader in cancer treatments and a frontrunner in personalized healthcare.

Project Description

The Immersive Patient Experience Project is meant to improve the quality of life for volunteers who participate in clinical trials. Often, it is difficult to source volunteers for a clinical trial because of the difficulty they must go through in order to take time out of their schedule to participate. Clinical trials often require volunteers to take time off from work, miss work days, and deal with the additional effects, causing many volunteers to drop out or not participate at all.

However, there is currently a gap in the understanding of the individuals who design clinical trials in regards to the problems that volunteers face. Additionally, even if those who design the trials know the problem, it is still difficult to apply that understanding to designing a better clinical trial. To fix this problem, this project is meant to use a VR experience that simulates the patient experience and allows for the individuals who design clinical trials to better understand and fix the issues that many volunteers face. The VR experience is meant to allow for healthcare providers to empathize with the volunteers and find solutions from a more personal perspective.

The first part of the project will focus on more pure consulting work where we provide recommendations on what sources to collect the VR data from and an overview of the VR space in healthcare as the Roche team separately builds out the MVP for the Immersive VR Patient Product. The second part of the project will focus on helping to code the VR experience and analyze the data collected from the MVP.

Internal Partners: Head of Digital Learning Experience at Roche

Datasets: Roche-provided dataset once the MVP is running and collecting data

Preferred Coding Languages: Python

Specific Skills

1. **Data Consulting:** Helping determine important and relevant data sources to analyze in the future
2. **Data Analytics:** Exploring, processing and deriving valuable insights from data
3. **Data Visualization:** Creating useful and interactive visualizations

Expected Technical Difficulty: **Intermediate/Advanced**