**Analyzing Blood Protein Profiles**

Project Overview

Blood protein profiles in healthy people differ from those of people who have cancer or other diseases. Establishing these profiles can be helpful for diagnosing diseases. Our goal is to combine protein profile datasets from a variety of patients who have a disease or are healthy controls, and then use that to create models that can predict whether someone is healthy or has a particular disease based on their blood profile.

Data Sets

The data sets we plan to use include:  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10354027/>  
<https://pubs.acs.org/doi/full/10.1021/acs.jproteome.0c00641?casa_token=jmZDPVZOvegAAAAA%3ARv_oH-9X2AfOxbH826lXOOUjBr8xhagsxlecoH2jrUE_aaJUsM1bINZ_g4RxtZSuMI0B1D3th1VilHUy8w>  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10836376/>  
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0276407>  
<https://aacrjournals.org/cancerrescommun/article/4/7/1726/746418>  
<https://link.springer.com/article/10.1186/s40364-017-0110-y>

Stakeholders

Doctors, patients, hospitals, insurance companies

KPIs

Sensitivity, Specificity, AUC,