Predicting HIV Progression

Using Data to Predict HIV Prognosis
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Agenda

- Hypothesis
- Background
- Data Analysis
- Visualizations
- Moving Forward
- Questions?

Hypothesis

- Is it possible to predict how severe HIV progression will continue based on past data?

Background

When monitoring the progress of a HIV infection, its important to use tests that give quantitative results.

Two main indicators used to measure HIV progression
1. HIV Viral Load
2. CD4+ Cell Count

Data Analysis

In our training data we have 999 patients.

6 columns on each patient.

- Patient ID
- Responder Status
- Protease Nucleotide Sequence
- Reverse Transcriptase Nucleotide Sequence
- Viral Load
- CD4+ Count

We want to focus on the Response Status and VL and CD4+ Count.

Data Visualization

https://github.
com/nadukrow/DAT5DCProject.git

Moving Forward

Questions???