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

- HIV Viral Load
- 2. CD4+ Cell Count

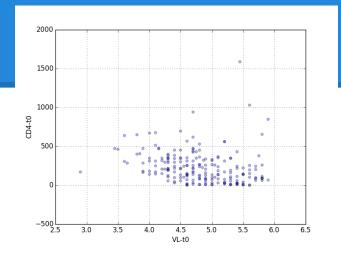
Data Analysis

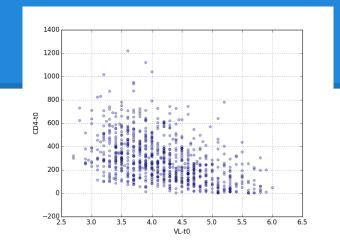
In our training data we have 1000 patients. 6 columns on each patient.

- 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





Moving Forward

Questions???