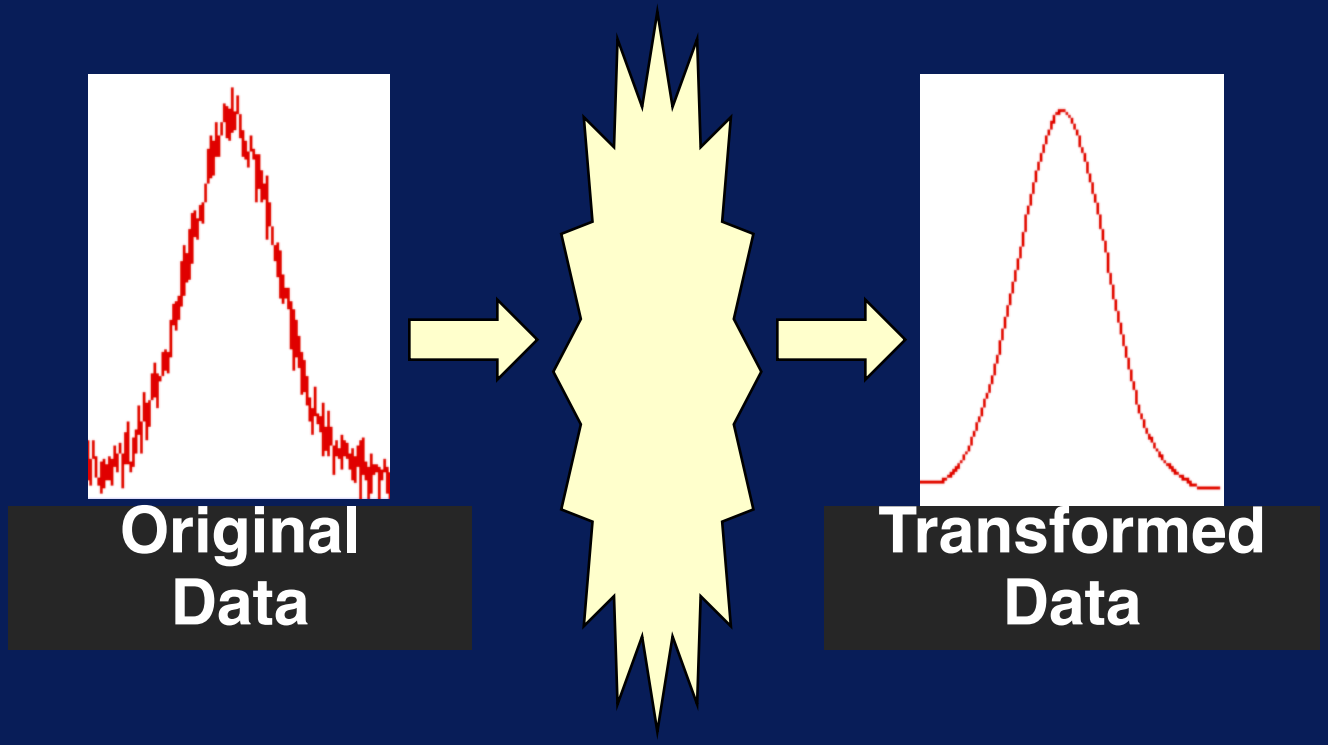
Feature Transformation

After this video you will be able to..

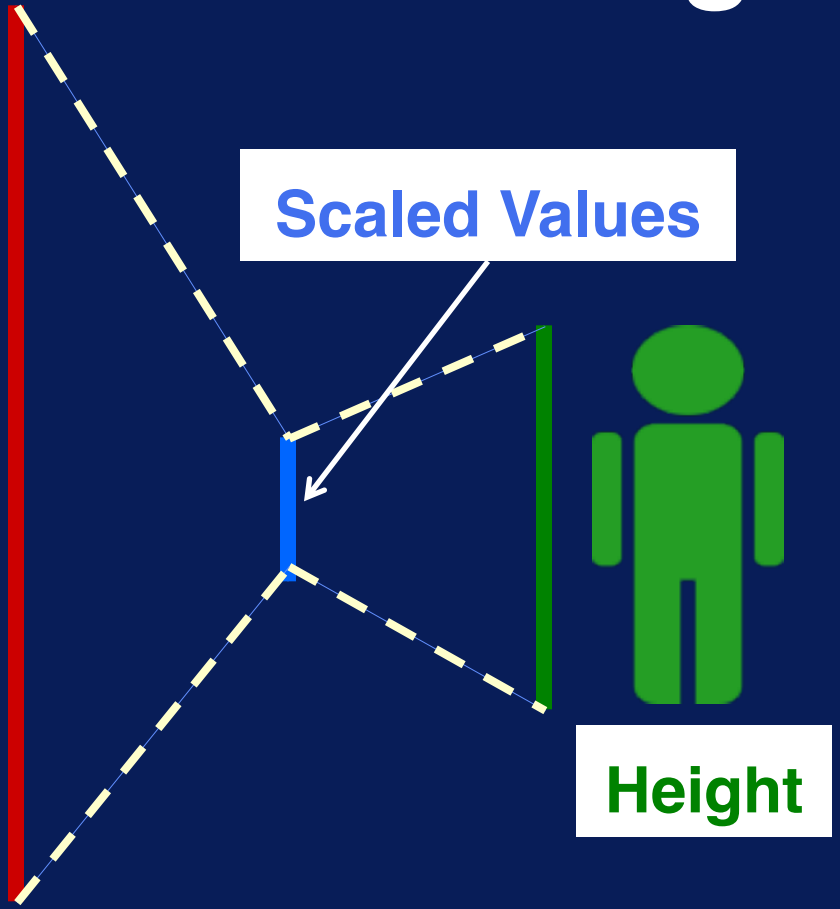
- Articulate the purpose of feature transformation
- List three feature transformation operations
- Discuss when scaling is important

Feature Transformation



Scaling

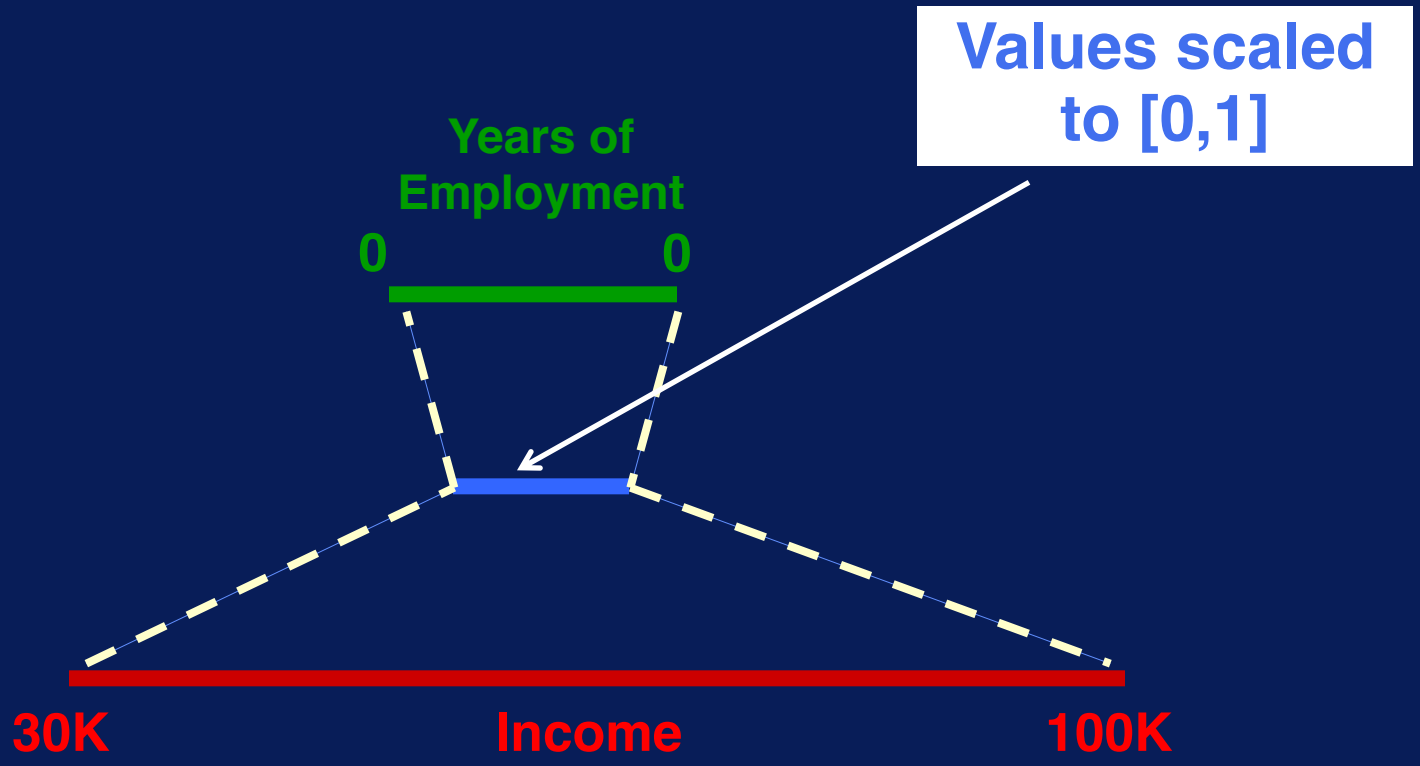
Weight



Scaled Values

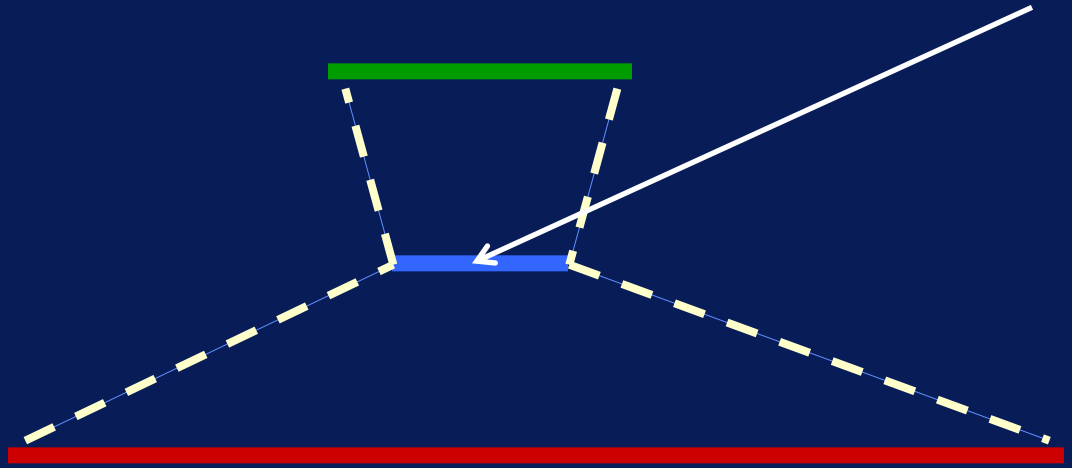
Height

Scaling to a Range



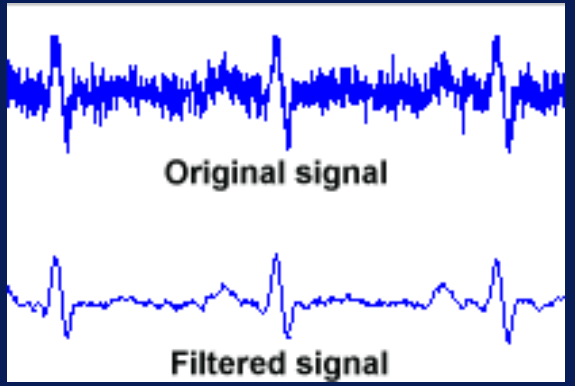
Zero-Normalization / Standardization

Mean = 0
Standard Deviation = 1

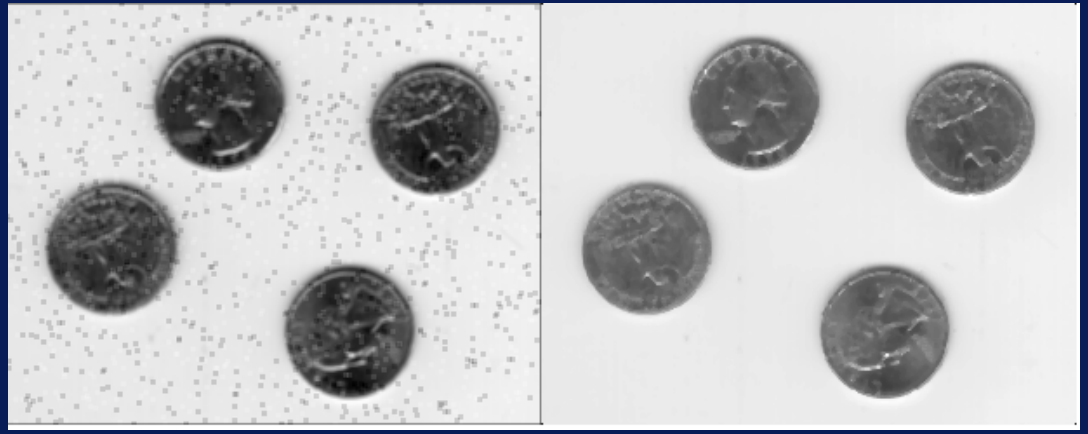


Filtering

Filter noise from audio signal

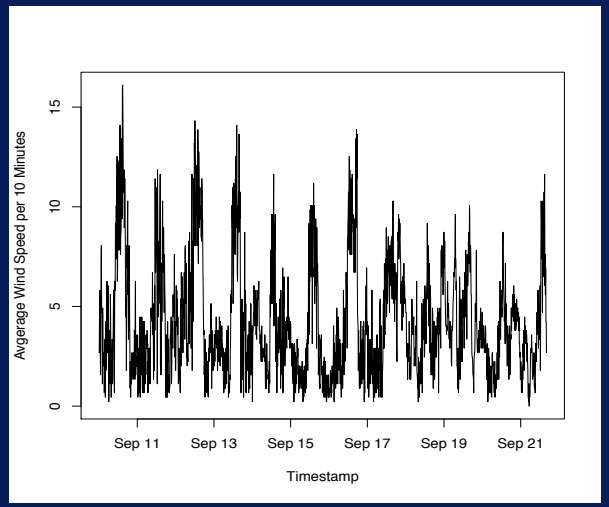


Remove grainy appearance in images

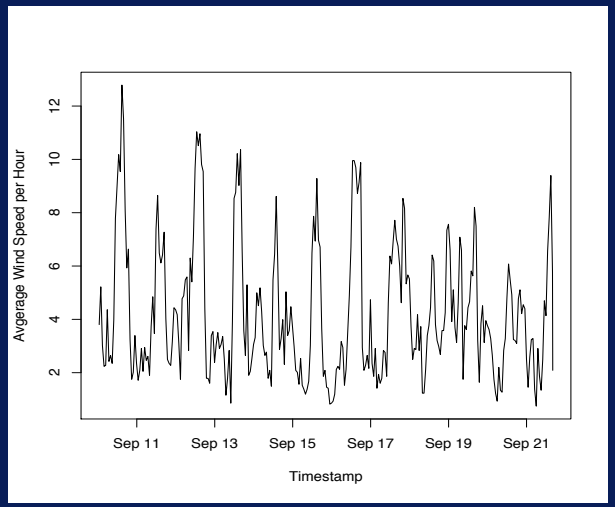


Aggregation

Avg Wind Speed
(every 10 minutes)



Avg Wind Speed
(every 60 minutes)



Feature Transformation

- **What:** Map feature values to new set of values
- **Why:** Have data in format suitable for analysis
- **Caveat:** Take care not to filter out important characteristics of data