## **Forest Cover Type EDA**

We preliminary explored the data to uncover patterns and test hypotheses

Topic	Finding	81
Data Background	Each c	Each data observation represents a 30m x 30m patch of land in Roosevelt National Forest of northern Colorado. Our model will predict a classification for the forest cover type. There are 7 forest cover types.
Data Shape	• • •	581,012 Rows 55 Columns 0 Null Values
Column Types	• •	10 variables are Continuous 44 variables are Binary
Test Variable Distribution	• • • •	Class imbalance is present Lodgepole Pine: accounts for 49% of data observations Spruce/Fir: 36% Ponderosa Pine: 6% Douglas Fir, Aspen, Cottonwood/Willow: 5%
Data Challenges	• •	40 different types of Soil variables (all binary) 4 different types of Wilderness variables (all binary)
Variables Correlation	•	Elevation, Aspect, Horizontal Distance to Fires, and Horizontal Distance to Roads variables have high correlation with Forest Cover Types variable  The 4 Wilderness variables have low correlation with Forest Cover Types variable