

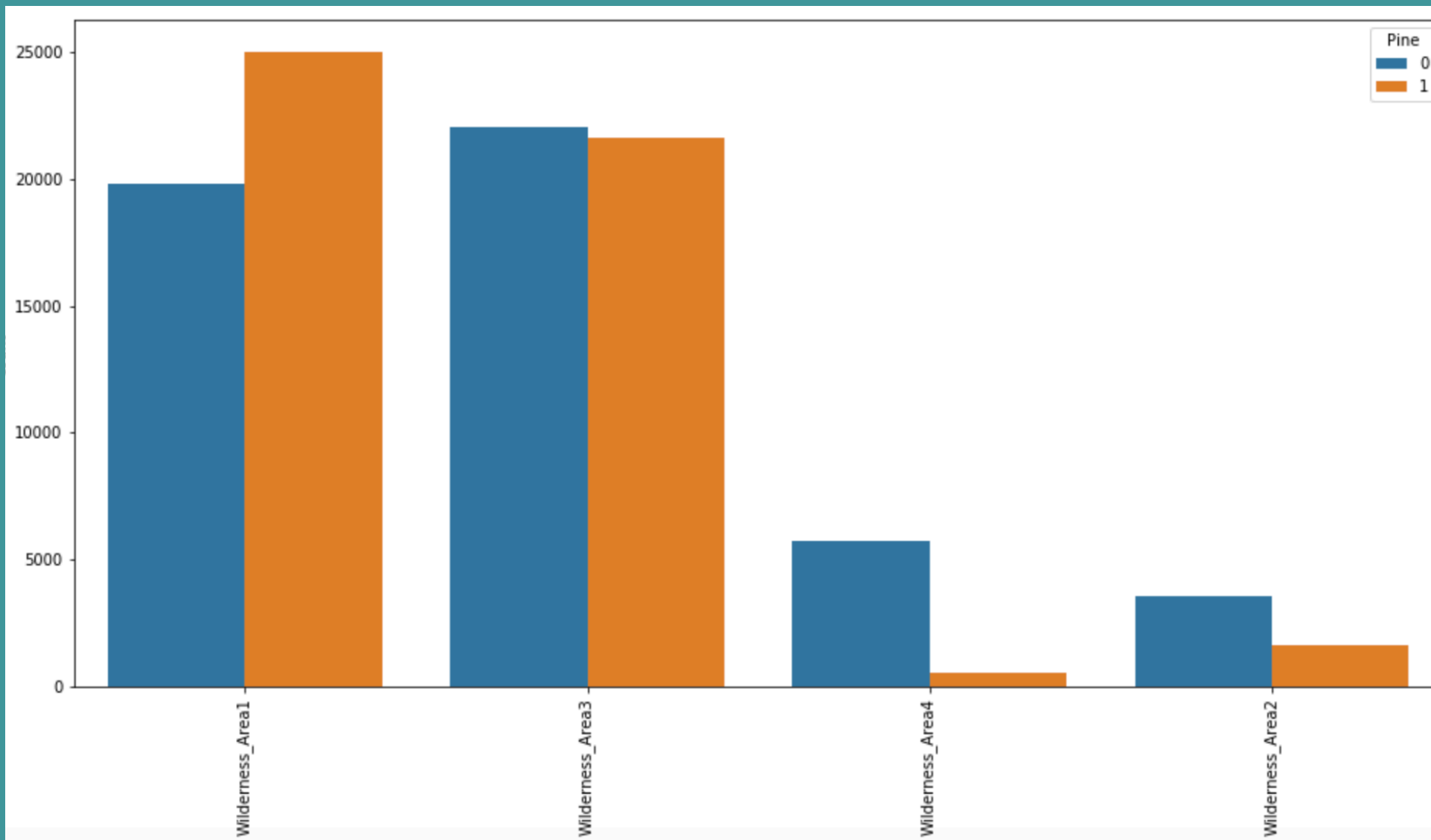


FOREST COVER PROJECT

BY AHILAN & ABI

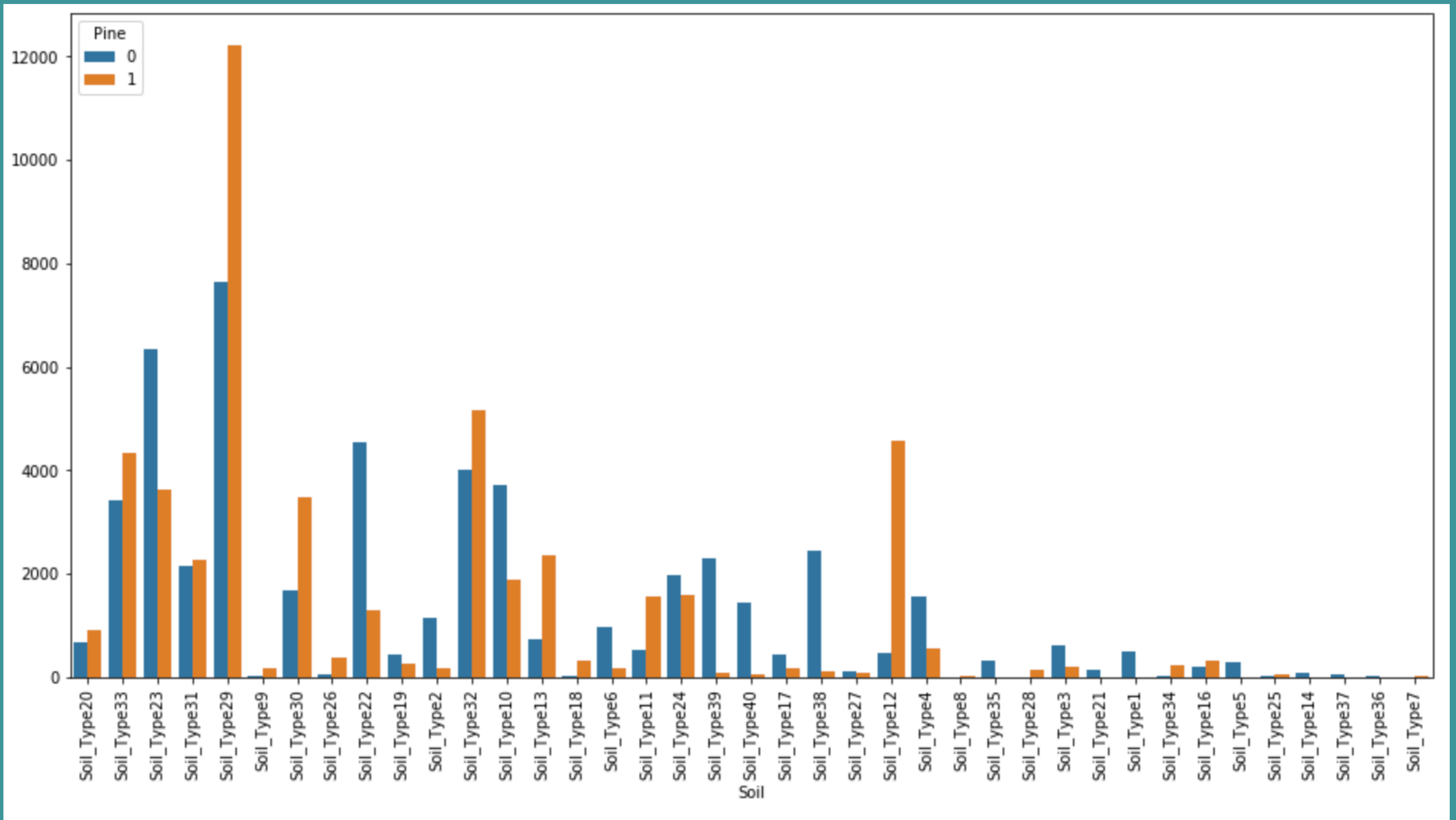
Analysis

- ▶ Lodgepole Pine is used for roofing, flooring and other joinery. It is also used in the production of chipboard and paper pulp
- ▶ Originally from Pacific coast of America through to Alaska
- ▶ Could potentially grown on other areas without much human intervention



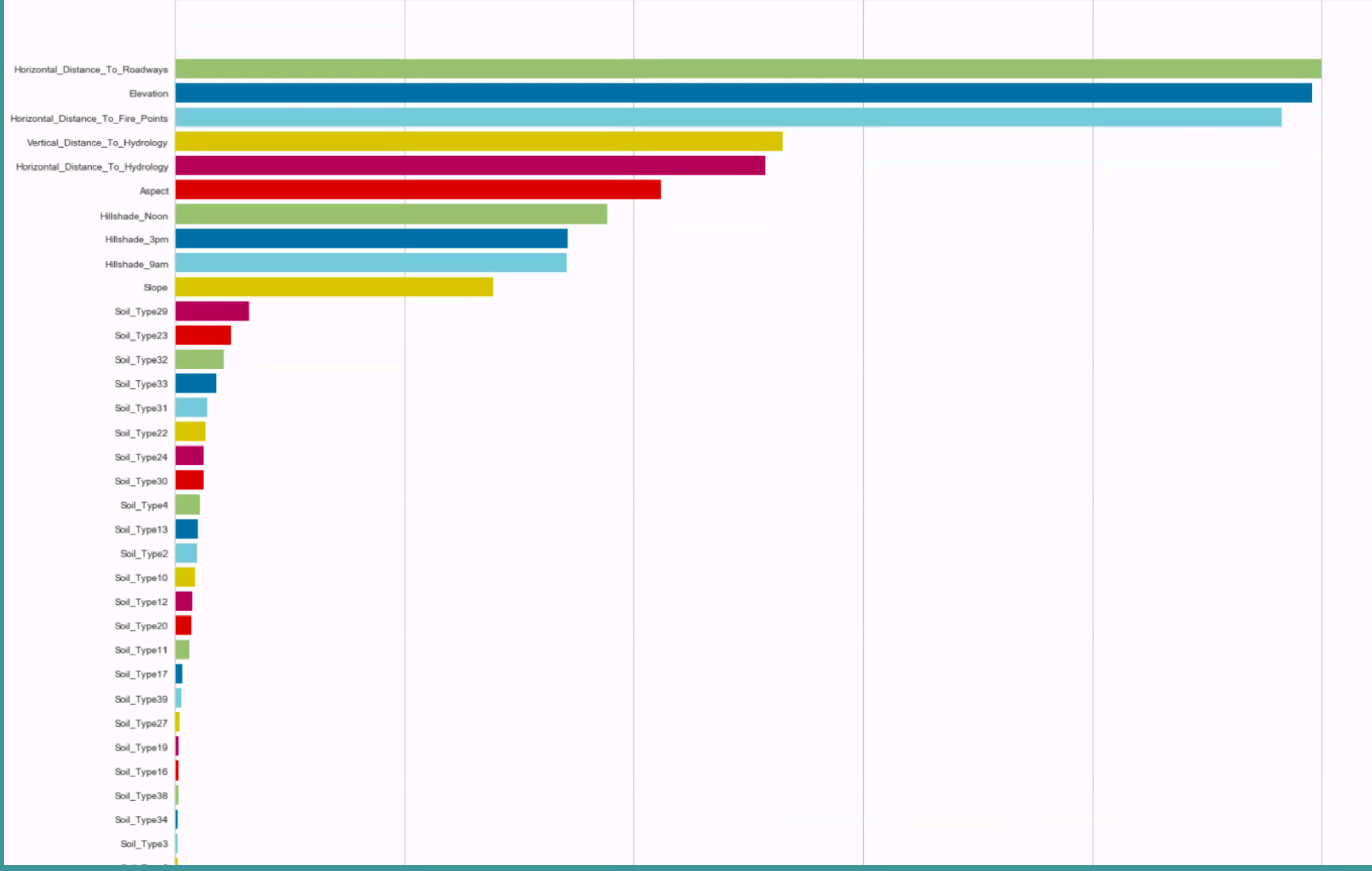
Wilderness Areas distribution of Lodgepole Pine

TEXT



Tree distribution according to soil type

Feature Importances of 50 Features using AdaBoostClassifier



-
- Given cartographical data like distance to roads and elevation from a specific area our model would be able to identify an ideal location to grow Lodgepole Trees
 - 97% probability of identify an ideal location
 - Saving costs on area preparation and maintenance increasing profitability on the investment

TEXT

Q & A

Appendix

Model Name	Train AUC	Validation AUC
Logistic Regression	0.8002	0.7983
Logistic Regression	0.8007	0.7987
Decision Tree	0.9762	0.9094
Random Forest	1.0000	0.9622
AdaBoost	0.7719	0.7678
AdaBoost	1.0000	0.9694
AdaBoost	1.0000	0.9513
XGBoost	0.9620	0.9378
Voting	1.0000	0.9701
Stacking	1.0000	0.9755