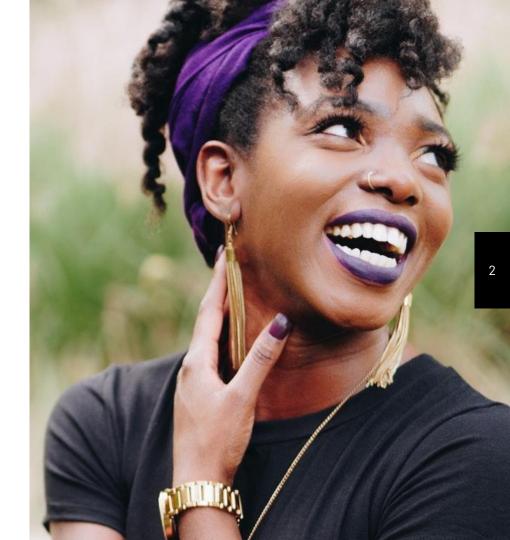


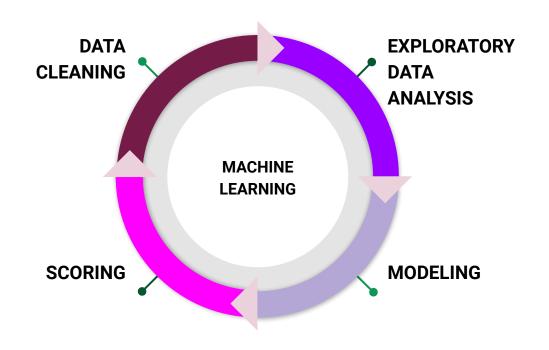
#### Problem Statement

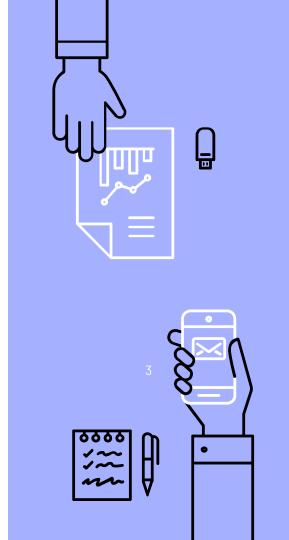
Build a model to predict if someone will make greater than or less than \$50,000 given their:

- Age
- Education level
- Occupation, working class, hours per week
- Marital status, race, sex

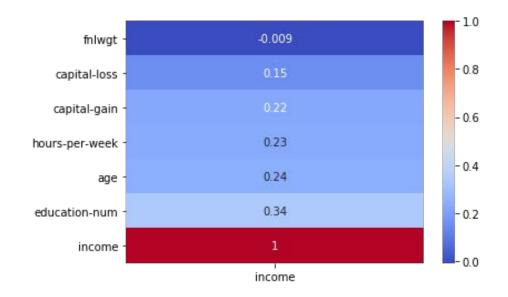


#### **OUR PROCESS IS EASY**





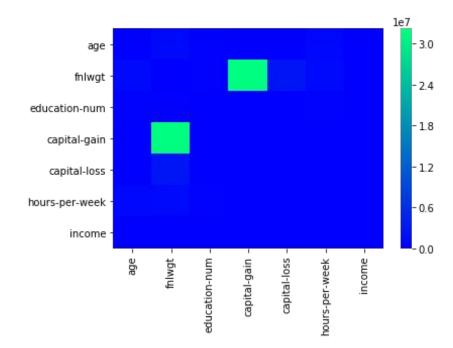
# **Exploratory Data Analysis**



Education, age, hours worked, and capital gain have the highest correlation with Income



# **Exploratory Data Analysis**



'capital\_gain' and 'fnlwgt' were highly correlated so we decided to use only one of those variables in the model

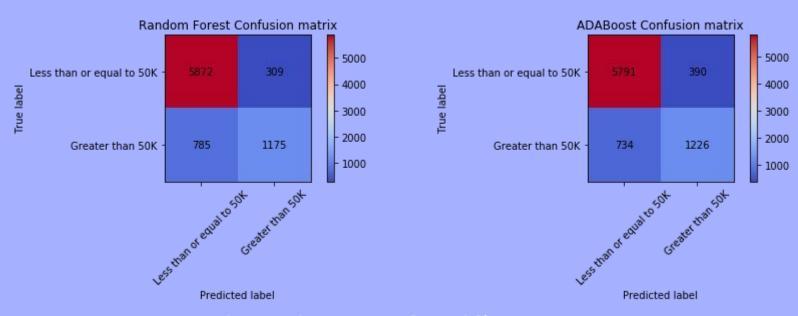


### Statistical Models

	Logistic Regression	Random Forest
Taining	0.863	0.876
Test	0.854	.865



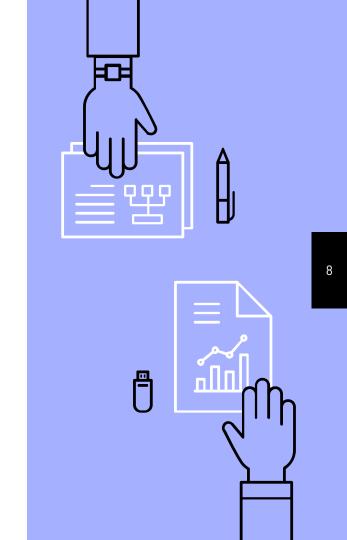
# Evaluating our Models



By using AdaBoost Classifier, we were able to reduce False Positives

### **Executive Summary**

- Data Wrangling
  - Deal with incomplete dataframes
- Modeling
  - Imbalanced data
  - Multi-collinearity
- Internal discussion on features



# THANKS!

Any questions?

