# 6b\_final\_project\_checkin\_template

November 22, 2019

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## 0.1 Final Project Check-in

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  - 1. Nithish Bolleddula
  - 2. Alan Flint
  - 3. Rushil Sheth
  - 4.

### 0.4 Load Data

```
[2]: import pandas as pd
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import precision_score

df = pd.read_csv('../input/train_values.csv')
train_target = pd.read_csv('../input/train_labels.csv')

cat_cols = df.columns[df.dtypes == 'object']
X_train = pd.get_dummies(df, columns=cat_cols)
y_train = train_target.damage_grade
```

### 0.5 Fit scikit-learn model

```
[3]: estimator = RandomForestClassifier(n_estimators=30,min_samples_leaf=100) estimator.fit(X_train, y_train)
```

#### **Evaluation Metric**

```
[4]: preds = estimator.predict(X_train)
score = precision_score(y_train, preds, average='micro')
print(f"micro averaged precision score is = {score}")
```

micro averaged precision score is = 0.6755461414192578