# 2022 Wellness Tracking Objectives The objective of this project is to reco create actionable ideas on how to incr training in sport as well as physical. Methods Imports and Data Cleaning return of data = read\_cav(filename) column\_headers = data.columns drop\_headers = ['Thought of the bay', 'dame Notes'] data = data.drop(drop\_beaders, axis=1) data = data.dropma(paxis=0, thresh=1) column\_beaders = data.columns nom\_entries = data.shape(0) data.iloc(0:10,:) | Part | representation = ("None becomey", now", "healy might", "Green Act | maring\_neights = ("None descript", "None meeting\_neights = ("None descript"), "None descript", "None descript "None descript", "None descript, "None descript", "None descript, "None descript, " "Similar form Section", "See Section", "State Section", "State Section", "State Section", "State Section", "State Section", "State Section Sec adjusted\_df = drop\_nams(adjusted\_df) x = adjusted\_df.drop((target, 'bate'), axis=1) y = adjusted\_df(target) x\_train, x\_test, y\_train, y\_test = train\_test\_split(x, y, random\_state=42) x.llcc[0:10,:] 10 rows × 23 columns

# In [222. **y[0:10]** y(0.18) 1 41.0 2 12.0 3 16.0 4 17.0 5 16.0 7 18.0 9 10.0 9 10.0 Name: Motop Recovery, dtype: Cloat64 man: whose Mescowry, dtype: foatse print("footal Training Sime: (% train.shape(0)) print(f"footal Training Sime: (% Teat.shape(0))") print(f"footal Training Sime: (% shape(0))") Total Training Sime: 7 Total Training Sime: 3 Total Overling Sime: 3 Total Overling Sime: 10

## Random Forest Regression

Reasoning and Methodology
Retries to real linguises in a student method search of algorithm which uses modern sampling and bootstraping from
Retries to real linguises in a situation method searched production of the search of

# In [225. from sklears.ensemble import NandomForestRegressor from sklears.metrics import mean\_squared\_error

In [226. rfr = RandomForestRegressor( rfr.fit(E\_train, y\_train)

score = rfr.score(X\_trais, y\_trais)
print(%-equared', round(score, 2))
R-equared: 0.93

y\_pred = rfr.predict(X\_test)

Types of Triposint(), table

so - taus Agende company (see, y, y, red)

picki( 'mas' , read/mes''(1/2-1), 2))

mas: 11:23

mas: 11:23

mas: 11:23

Mas: 11:24

Mass: 11:24

Ma

MERGINAL (MONTHUM PROPERTY AND A THE ATTEMPT AND

St. store)

Postcret Whos Scovery is Actual Whos Store

Of The Control of the Con 55 Actual Whoop Recovery
— Precision Whoop Recovery

0.00 0.25 0.50 0.15 1.00 1.25 1.50 1.15 2.00

Observation Number

forest\_importances = pd.series(normalized\_importances) fig, ax = plt.subplots()
forest\_importances.plot.bar(yerretd, ax=ax)
ax.set\_title(f"Peature Importances for (target)")
fig.tight\_layout()

## Analysis and Impact

## Linear Regression

Reasoning and Methodology
Though Random Forest Regression seems to b
is also more easily understandable to peopel is
discrete variables to become continuous. This
Implementation

```
from sklears.linear_model import LinearRegression from sklears.metrics import r2_score
in [232_ reqr = LinearRegression[)
reqr.fit(X_train, y_train)
                y_pred = regr.predict(x_test
r2_score(y_pred, y_test)
```

In [232. feature\_titles = X\_train.columns reg\_coef = regr.coef\_

| Sell\_mode | seer\_mode | seer