1

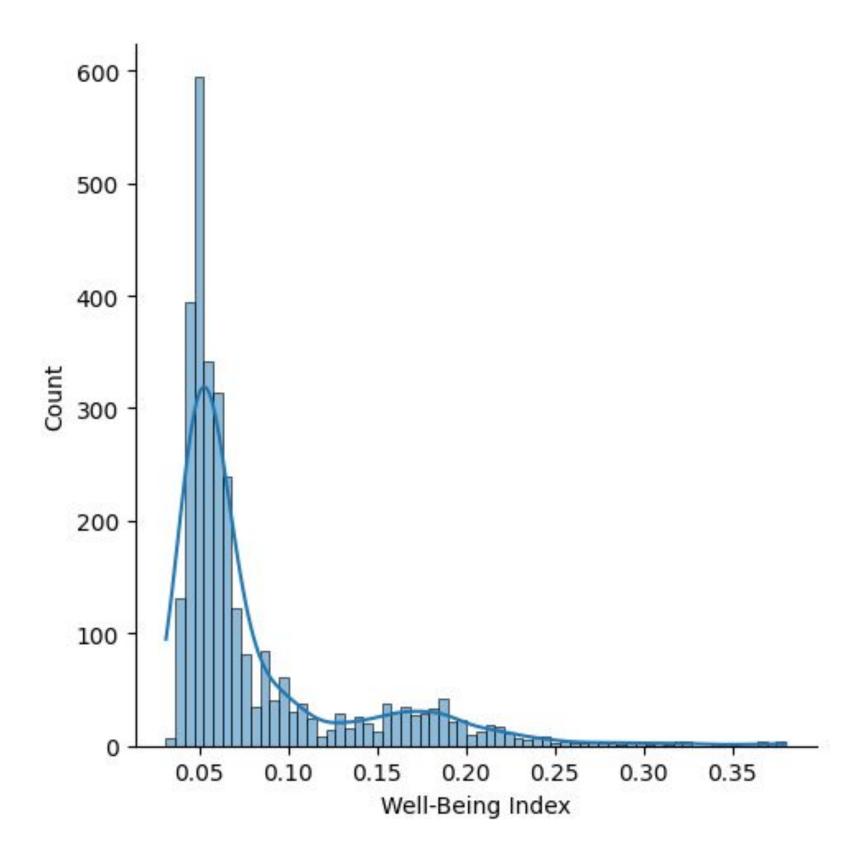
INTRODUCTION

What Makes the Galaxy Better

- Galaxies, which features best explains the existence of them
- A Regression Analysis Model that predicts the future well being of the galaxies



EXPLORATORY DATA ANALYSIS



- 3098 rows

- continuous label
- 80 features

Distribution of Well-Being Index

 Skewd to the right therefore the need to scale the values



DATA ENGINEERING

ENGINEERING PROCESSES

Used Robust Scaling on the Too much missing values values since it is not sensitive in some columns, 80% - 20% to outliers dropped the columns Data **Imputation Eliminating Scaling The Used Median for replacing** Noise **Values** split the data into 80% for Missing values in aach training and 20% for column testing



DATA MODELING

MODELS USED

- Random Forest Regressor
- **Decision Tree Regressor**
- **Linear Regression**
- 4 Gradient Boost Regressor

Accuracy_Metrics

RMSE

The smaller the RMSE The better the model performance

BEST MODEL

