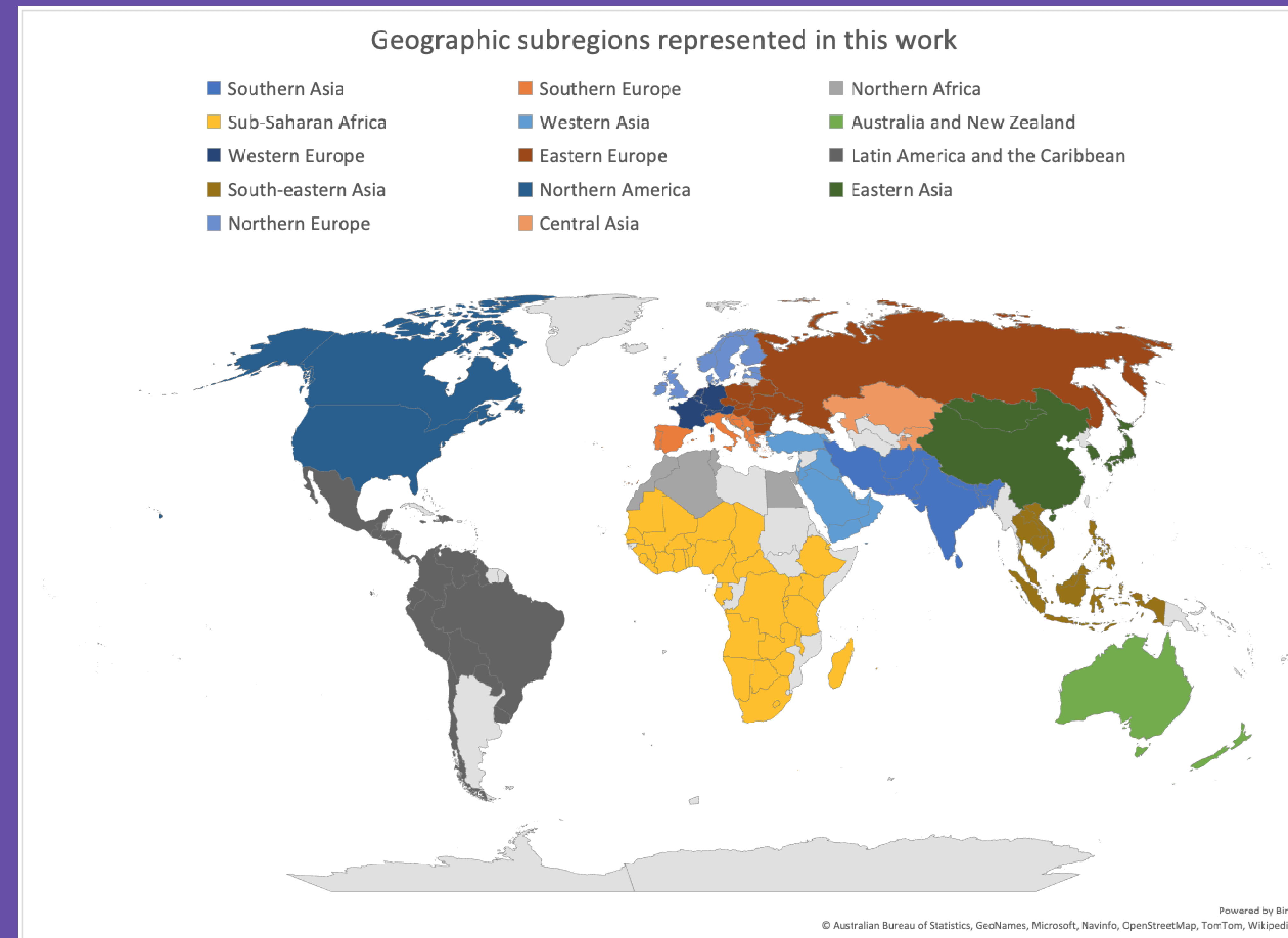


Impact of feature selection & data imputation on Refugee Prediction

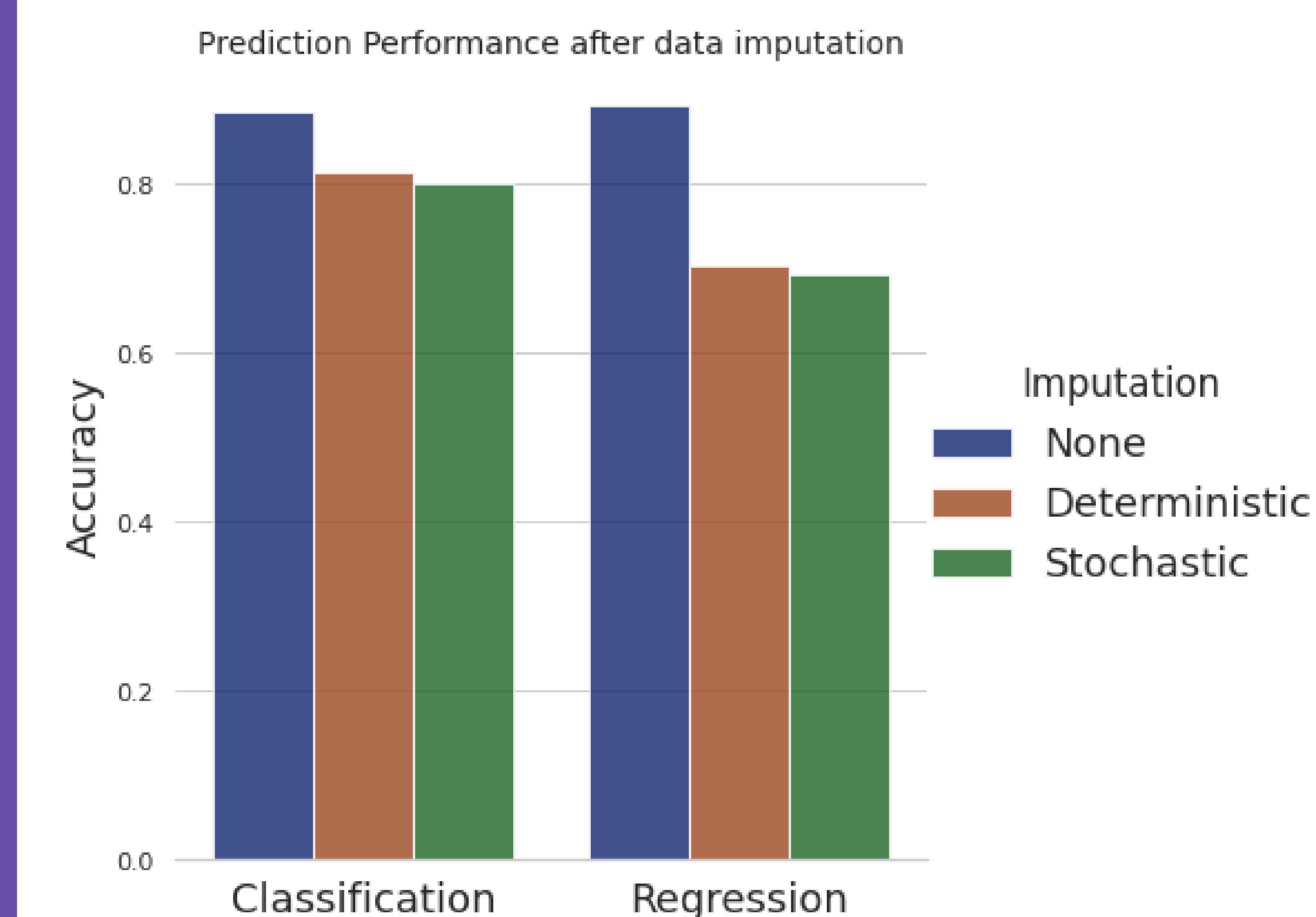
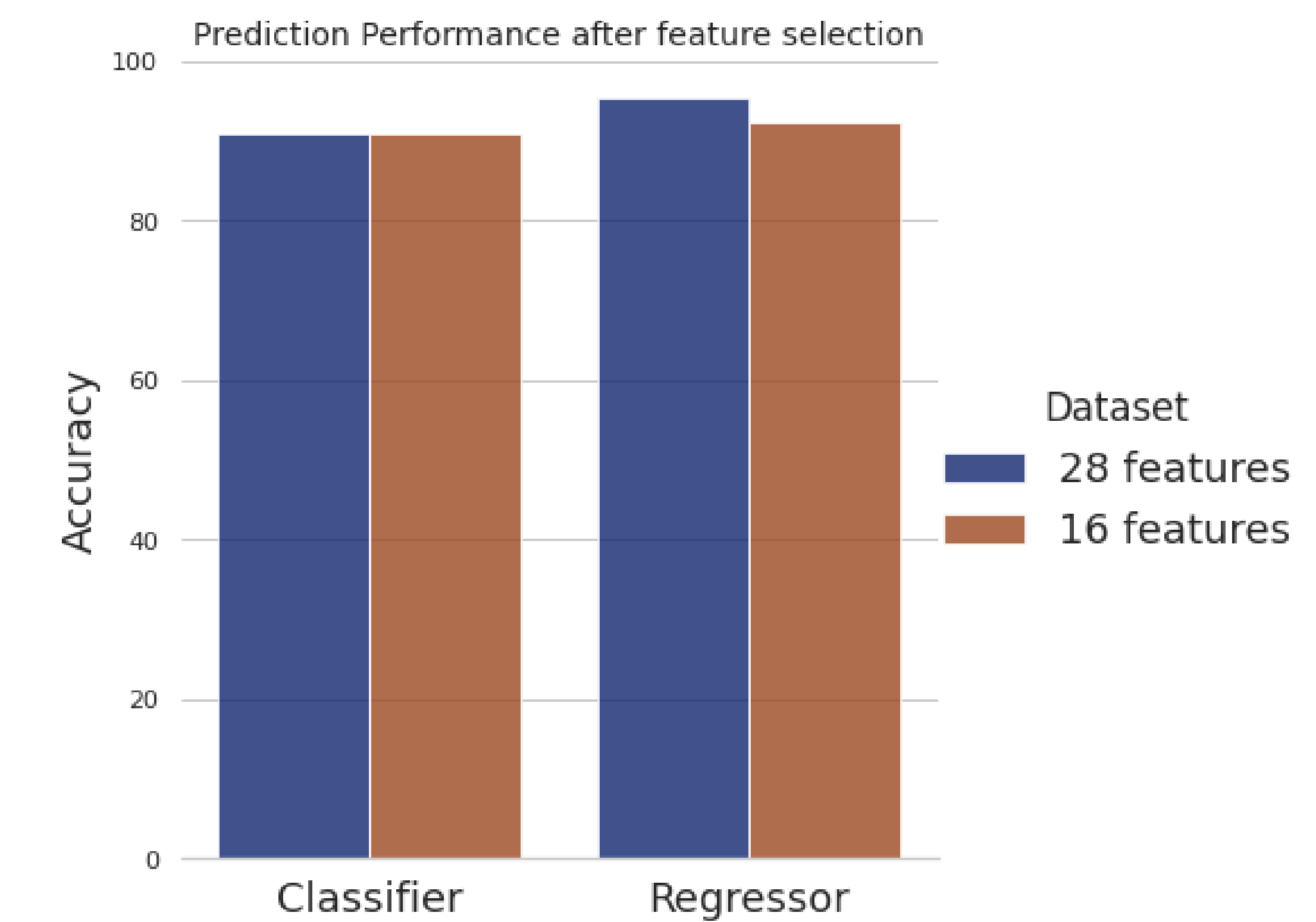
At best, our model achieved almost **98% Accuracy** in prediction, whereas, reports in previous works ranged from **68-80%**.



Model performance was best when null values are simply removed as opposed to Data Imputation.



Super Learner Performance



Dominant Features

- Global peace index
- Corruption perception index
- Discrimination & violence against minorities
- Freedom of religion
- Political rights

Objectives

- Developing a robust Refugee prediction model
- By unleashing true power of the predictive features
- That's why extensive experiments have been conducted on feature selection
- Importance of handling missing values with Data imputation techniques is also paramount

Workflow

- Ground truth data from multiple sources were combined to construct one large dataset.
- Extensive analysis reveals **Recursive Feature Selection (RFE)** as best method.
- Various **Data Imputation techniques** present interesting insights