

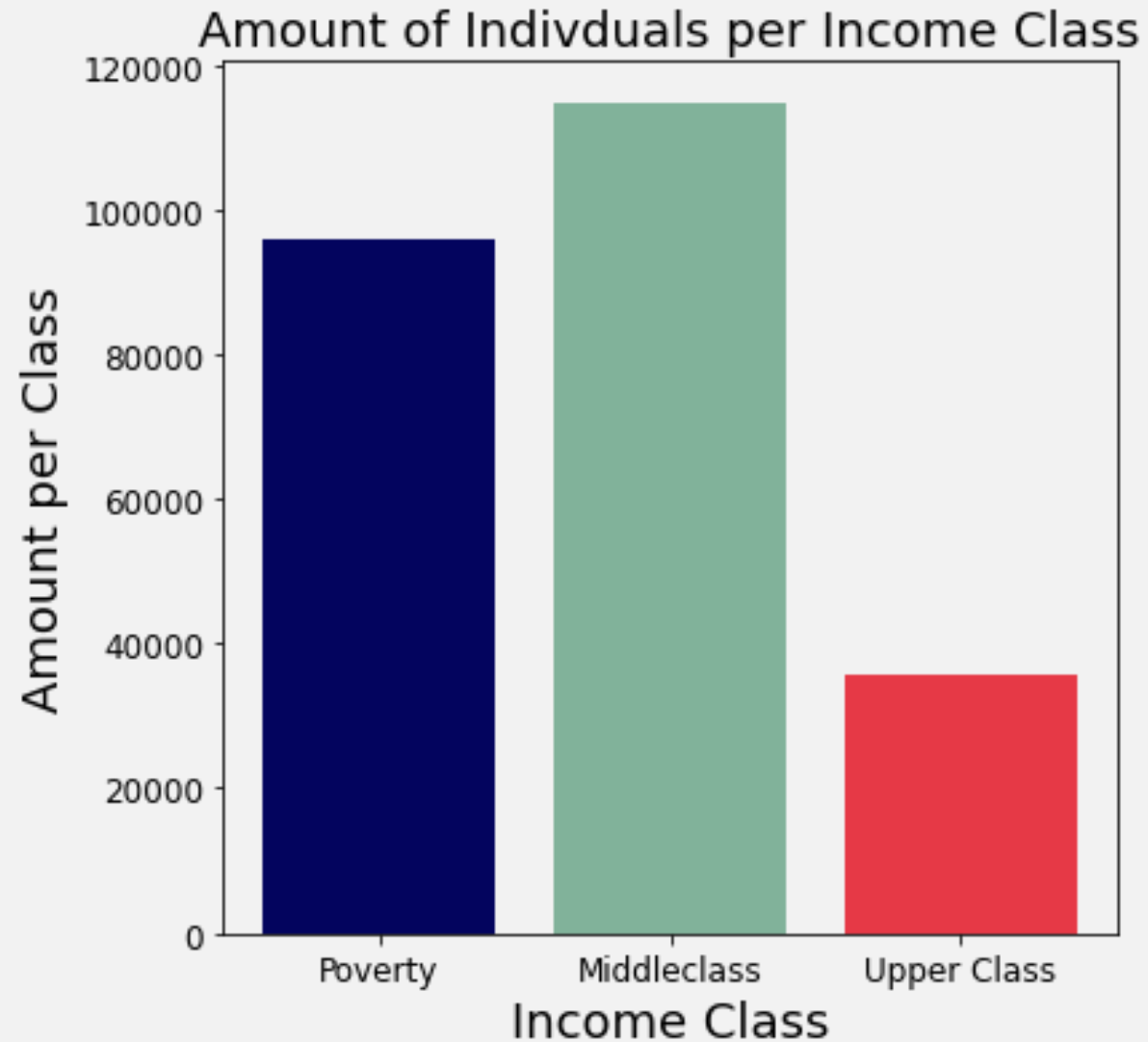
ILLINOIS INCOME PREDICTOR

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INTRODUCTION

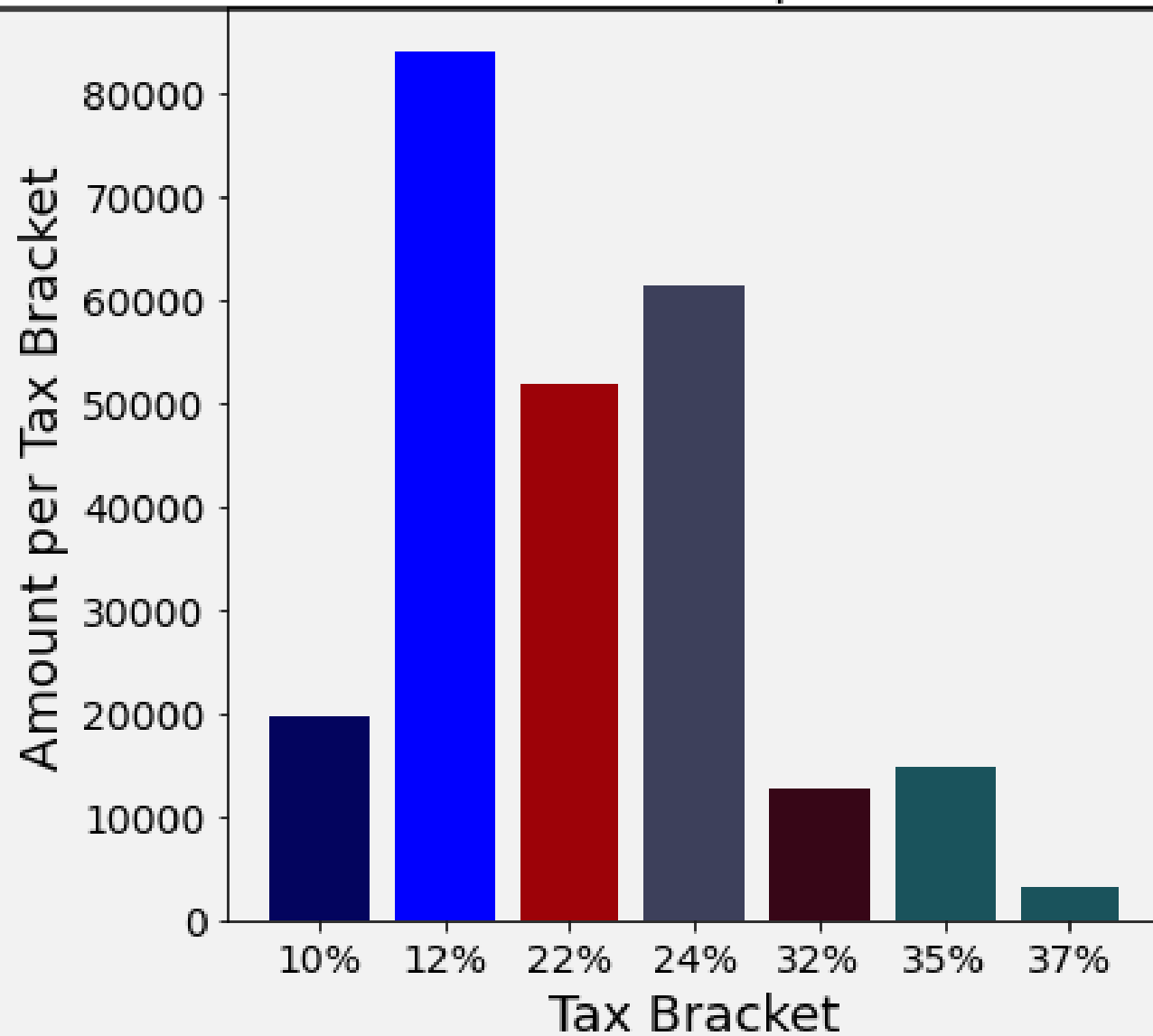
- Problem:
 - Citizen not being approved for state or government benefits/programs due to inaccurate income calculations or not having the necessary documents.
- Solution:
 - Utilize a neural network that will predict an individual's income given certain parameters.
- Data:
 - 2018 American census survey
 - Solely Illinois

EXPLORATORY DATA ANALYSIS(EDA)

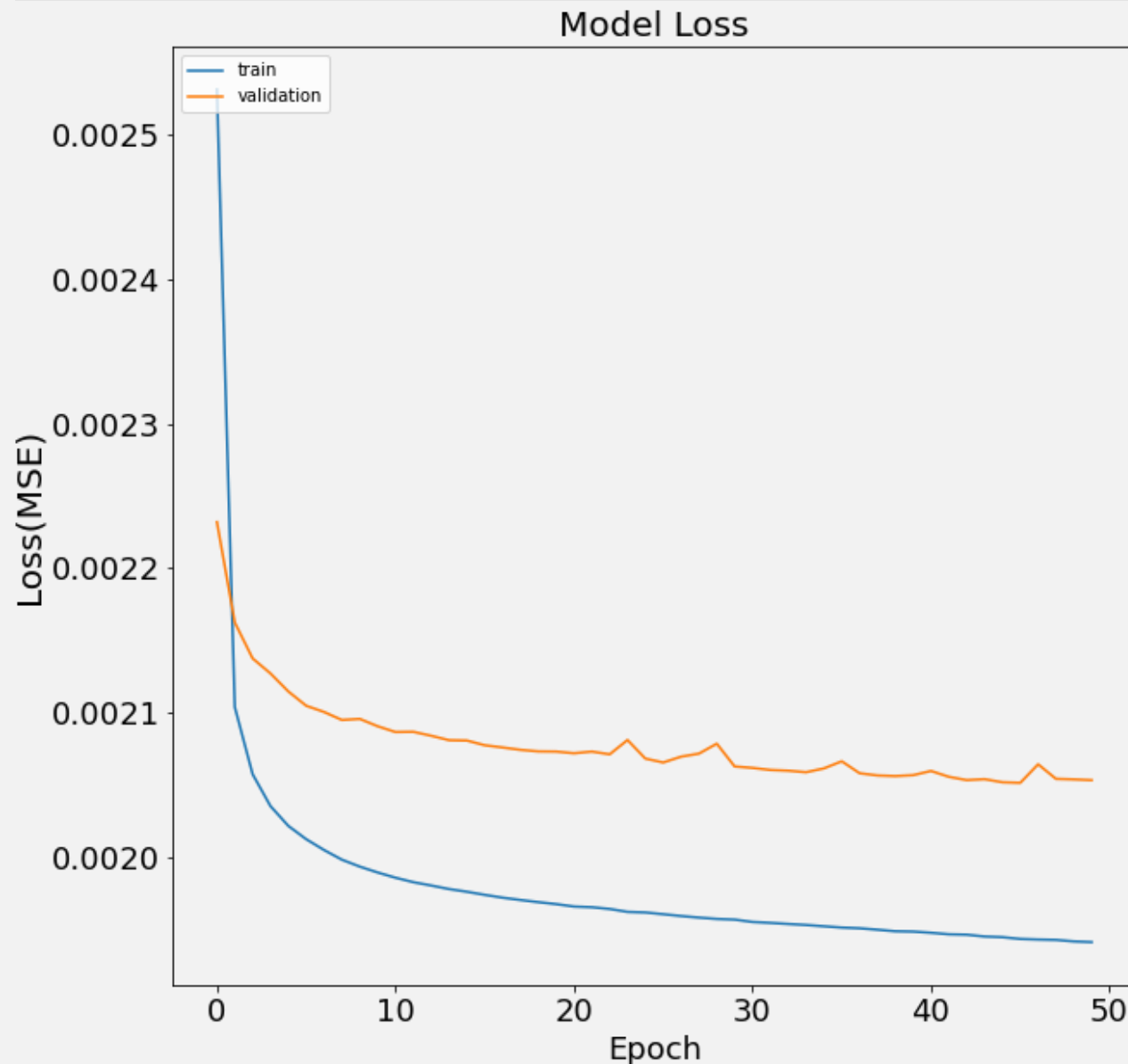


EDA CONT.

Amount of Individuals per Tax Bracket



MODEL EVALUATION



PROOF OF CONCEPT

SMOCP -Selected monthly owner costs.

PUMA -Public use microdata area code (PUMA)
based on 2010 Census definition

NP -Numeric 2Number of persons associated with
this housing record.

BDSP -Number of bedrooms.

INSP -Numeric 5Fire/hazard/flood insurance yearly
amount.

RMSP-Number of rooms.

VALP -Property value.

TAXAMT -Property taxes.

```
X inputs=[2.600e+02 3.529e+03 2.000e+00 2.000e+00 2.600e+02 4.000e+00 2.600e+02
2.600e+02] ,Actual=[35000.], Predictied=[51608.098]
```

[65]: X_test

[65]:	SMOCP	PUMA	NP	BDSP	INSP	RMSP	VALP	TAXAMT
	238940	260.0	3529	2	2.0	260.0	4.0	260.0

NEXT STEPS

- Determine area of interest and create a visual of that area
- Maximize Model efficiency.
- Create models per puma code
- Create flask/Dash Appl for online application

CONTACT INFORMATION

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