

HUMAN RESOURCES ANALYTICS

T5 BOOTCAMP DATA SCIENCE PROJECT

Done by:

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PPROJECT GOal

Predict the probability of a candidate looking for a new jobAt that stage, I analyzed and explored the data in detail about ways to review the features affecting the goal and extract information from it, and that was the first stage.



Data Processing Sequence



Clean data



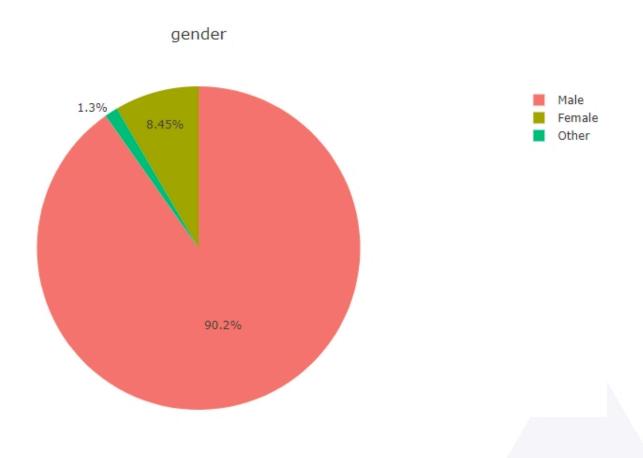
Data visualization



Features Engineering

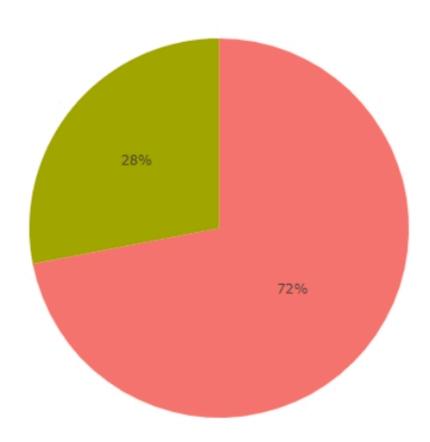


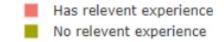
Models and results

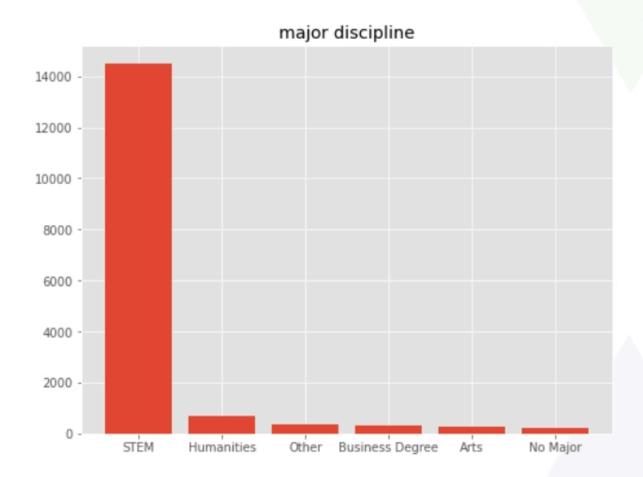


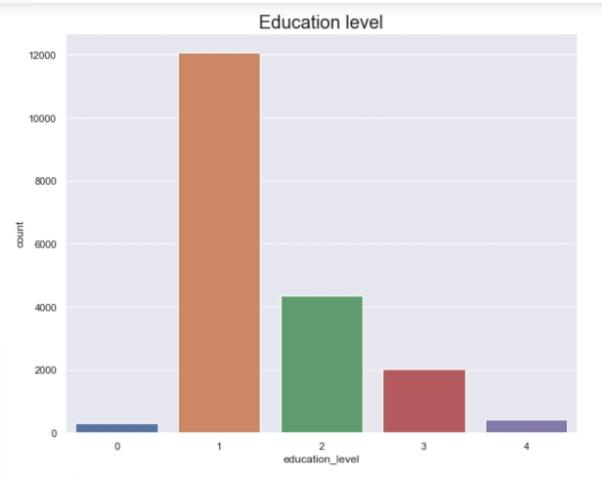
	Missing
city_development_index	0.000000
gender	0.235306
relevent_experience	0.000000
enrolled_university	0.020148
education_level	0.024011
major_discipline	0.146832
experience	0.003393
company_size	0.309949
company_type	0.320493
last_new_job	0.022080
training_hours	0.000000

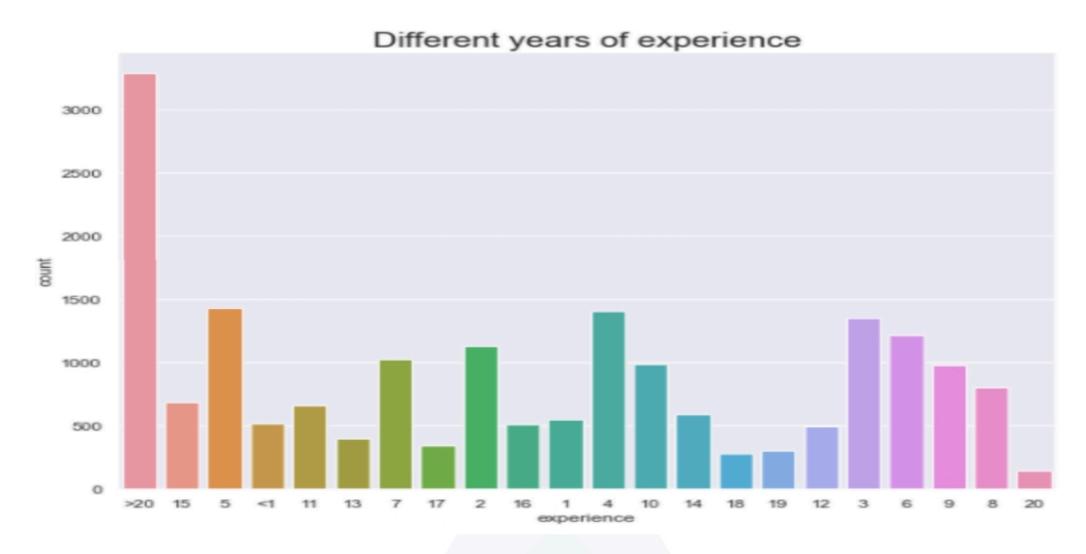






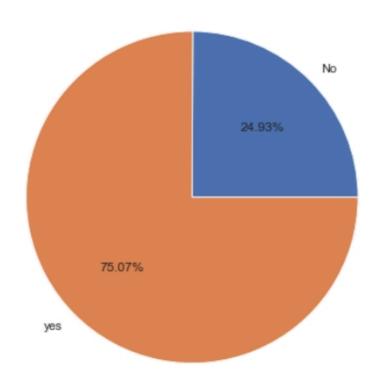




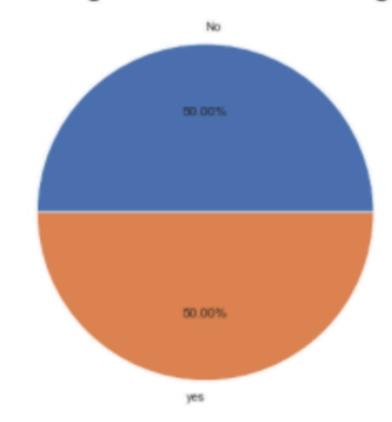


Class imbalance (by : SMOTE)

Looking for New Job Percentage



Looking for New Job Percentage

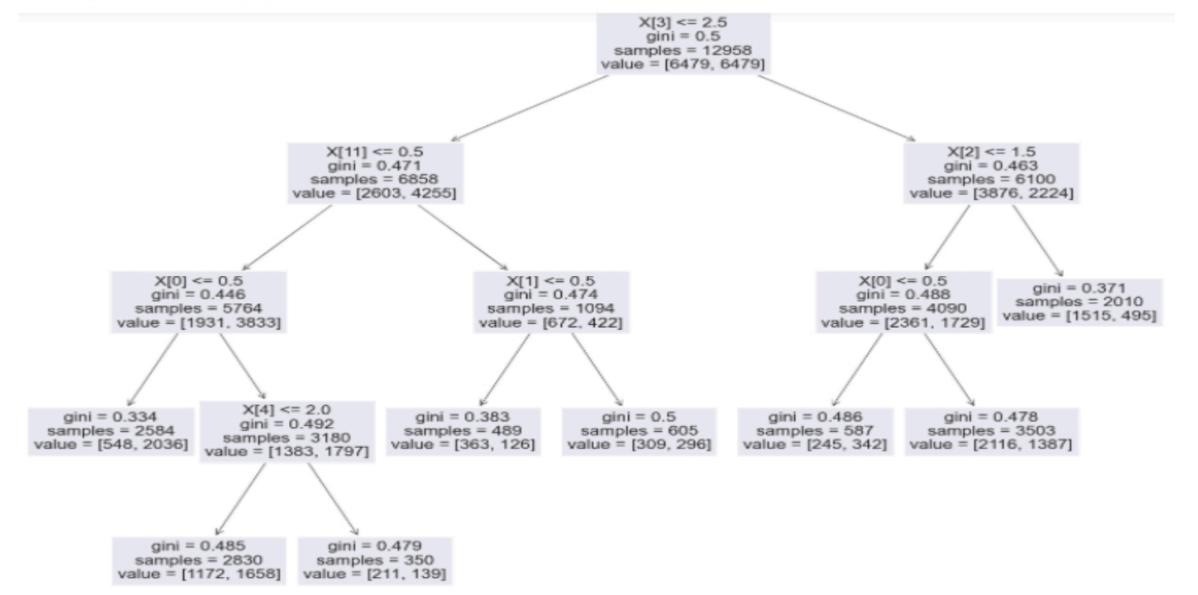


Model and Evaluation

We applied four different rating models and compare IF scores for each model.



Exporting Decision Tree



Ensemble Learning

We applied most popular Ensemble methods, including bagging, boosting, stacking

