

# Bpi deeptech

mardi 24 novembre 2020 10:25

	Model	Features
Main Model	Logistic Regression	'doctor_yesno', 'funding_employees_ratio', 'has_strong_founder', 'has_super_founder', 'stage_age_ratio', 'nb_patents', 'technical_background', 'health_industry', 'semiconductors_industry', 'energy_industry', 'commission_income_streams', 'biotechnology_tags', 'neurology_tags', 'saas_tags', 'fund_investors_type', 'Agoranov_investors_name'
Scores		
Laboratory	Logistic Regression	Zip Code, nb patents, doctors (Yes/No)
Time to market	Logistic Regression	funding_employees_ratio, stage_age_ratio
Technological	Logistic Regression	tags

```
KEPT_TAGS = [
    'technical_background',
    'health_industry',
    'semiconductors_industry',
    'energy_industry',
    'commission_income_streams',
    'biotechnology_tags',
    'neurology_tags',
    'saas_tags',
    'fund_investors_type',
    'Agoranov_investors_name']
```

```
TARGET_ZIP = [91, 38, 87, 35, 67]
```

Time to market	
stage_age_ratio	growth_stage_num
<pre>def get_stage_age_ratio(data):     data['year'] = pd.DataFrame({'year': data['launch_year']})     data['year_of_existence'] = data['year'].map(lambda x : subtract_date(x))     data['growth_stage_num'] = growth_stage_num(data)     data['stage_age_ratio'] = data[['year_of_existence', 'growth_stage_num']] \         .apply(return_ratio,axis=1)     return data['stage_age_ratio']</pre>	<pre>def growth_stage_num(data):     ...     function that maps the 'growth stage' as an ordinal feature     ...      stage_status = data['growth_stage'].map({'mature' : 4,  'late growth' : 3,  'early growth' : 2,  'seed' : 1})      return stage_status</pre>
funding_employees_ratio	
<pre>def funding_amounts_employees(data):     ...      function that performs the ratio between funding and employees     ...      funding = data['total_funding_source']     employees = data['employees_latest']      return funding/employees</pre>	