Ai-Team 15

Startup Success Predection.

Mentor: DR. V. VENKATARAMANA.

Team Members:

1:A.AMOGH VARSH RAJU 19K41A0<mark>590</mark>

2:A.SAI KIRAN 19K41A0592

3: A.FATHIMA 19K41A04F1

CONTENT

Objective

Stake holders

Data insights

ML models

Comparitive result analysis

Application Demonstration

Conclusion & Future scope.

OBJECTIVE

The Main Objective of the Project is to build a regression model, that can predict the success rate of the startup by comparing the results and previous data of these.

Companies. Startup's. Investments. Funding.

Investors

The people who generally investin a startup just through pitching

Business holders

The new business people who are willing to establish a new business in less time.

Organizations

Other NGO organizations who generally donate for the startups.



Creative Employees

Not only money lenders but also the people who want to work by knowing will they get paid.

Events&Competetions

Startup event hosters can filter the startups in the comptetion.

Founder

The startup founder for himself can analyze whther how to get investment, he will fail or pass.

Marketing Labels	Founded at	Last funding at	Age First Funding	
The number of marketing labels a company has	The year of the company was found at.	The time of the company when it received its last funding .	The age of the company when it received its first funding.	
			Тор 500	
Age last funding	Age first Milestone	Participants	Top 500	



	labels	founded_at	first_funding_at	last_funding_at	age_first_funding_year	age_last_funding_year	age_first_milestone_year
0	1	1/1/2007	4/1/2009	1/1/2010	2.2493	3.0027	4.6685
1	1	1/1/2000	2/14/2005	12/28/2009	5.1260	9.9973	7.0055
2	1	3/18/2009	3/30/2010	3/30/2010	1.0329	1.0329	1.4575
3	1	1/1/2002	2/17/2005	4/25/2007	3.1315	5.3151	6.0027
4	0	8/1/2010	8/1/2010	4/1/2012	0.0000	1.6685	0.0384
			•••			•••	•••
918	1	1/1/2009	7/9/2009	7/9/2009	0.5178	0.5178	0.5808
919	0	1/1/1998	4/1/2005	3/23/2007	7.2521	9.2274	6.0027
920	0	1/1/1999	6/29/2007	6/29/2007	8.4959	8.4959	9.0055
921	1	1/1/2009	10/5/2009	11/1/2011	0.7589	2.8329	0.7589
922	1	1/1/2003	2/13/2006	2/13/2006	3.1205	3.1205	4.0027

922 rows × 23 columns

ML Models & Comparitive Results

ALGORITHM	ACCURACY RATE
KNN	0.72(72%)
SVC	0.70 (70%)
Decision Tree	0.89(89%)
Random Forest	0.9(90%)
Logistic regression	0.9(90%)

```
from sklearn.neighbors import KNeighborsClassifier
classifier = KNeighborsClassifier()
classifier.fit(X_train, y_train)
y_pred = classifier.predict(X_test)
from sklearn.metrics import confusion_matrix
cm = confusion_matrix(y_test, y_pred)
print(cm)
from sklearn.metrics import accuracy_score
accuracy_score(y_test, y_pred)

[ 1 100]]

[ 1 100]]
```

KNN

0.9090909090909091

Logistic regression

```
from sklearn.svm import SVC
  classifier = SVC(kernel = 'linear', random_state = 0)
  classifier.fit(X_train, y_train)
  y_pred = classifier.predict(X_test)
  from sklearn.metrics import confusion_matrix
  cm = confusion_matrix(y_test, y_pred)
  print(cm)
  from sklearn.metrics import accuracy_score
  accuracy_score(y_test, y_pred)

[[174    0]
  [    0    101]]
1.0
```


SVC

Random forest Classifer

DecisionTreeClassifer

```
from sklearn.tree import DecisionTreeClassifier
  classifier = DecisionTreeClassifier(criterion = 'entropy', random_state = 0)
  classifier.fit(X_train, y_train)
  y_pred = classifier.predict(X_test)
  from sklearn.metrics import confusion_matrix
  cm = confusion_matrix(y_test, y_pred)
  print(cm)
  from sklearn.metrics import accuracy_score
  accuracy_score(y_test, y_pred)

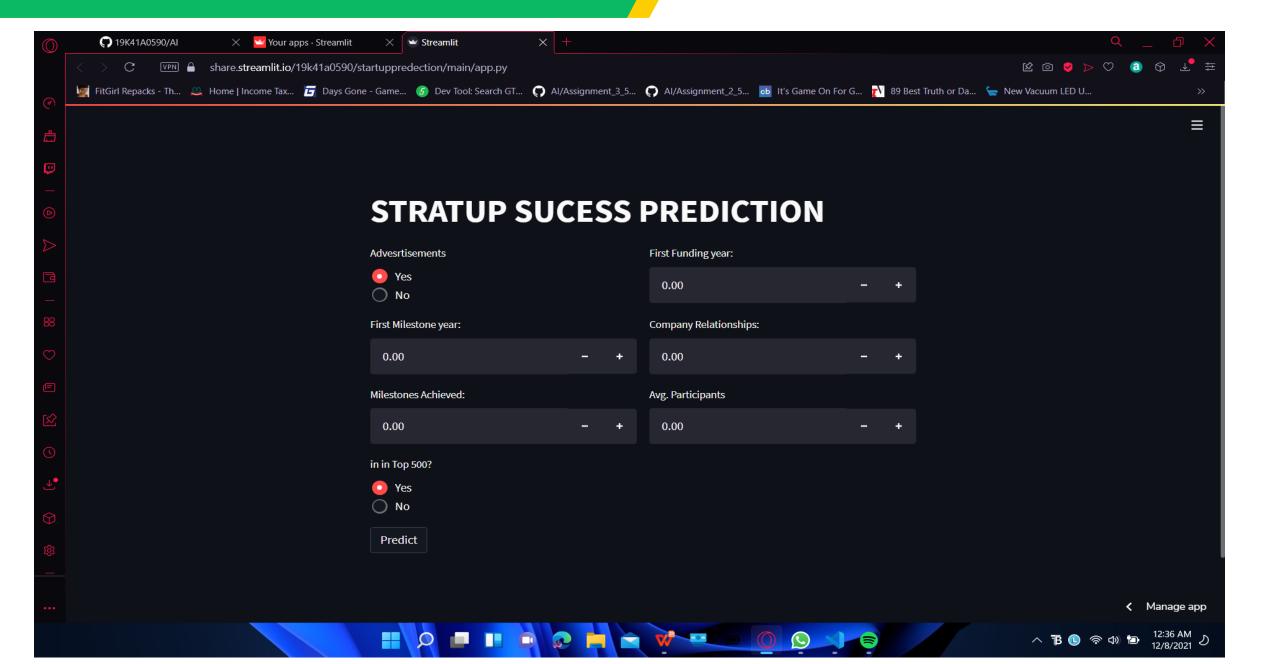
[[174     0]
  [     0     101]]
1.0
```

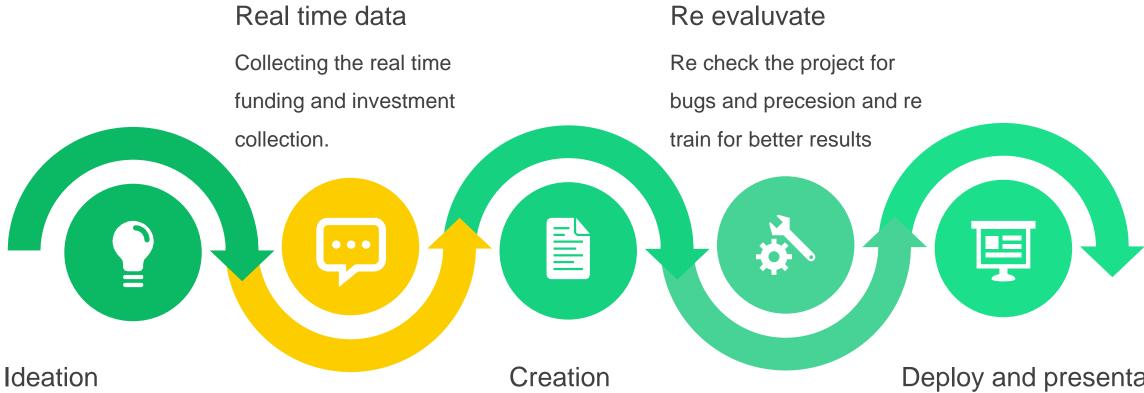
Logistic regression

```
from sklearn.ensemble import RandomForestClassifier
  classifier = RandomForestClassifier(n_estimators = 10, criterion = 'entropy', random_state = 0)
  classifier.fit(X_train, y_train)
  y_pred = classifier.predict(X_test)
  from sklearn.metrics import confusion_matrix
  cm = confusion_matrix(y_test, y_pred)
  print(cm)
  from sklearn.metrics import accuracy_score
  print(accuracy_score(y_test, y_pred))

[[174     0]
  [     0     101]]
1.0
```

Application Demonstration





New format of ui rate of success display

Making the project based on the real time data.

Deploy and presentation

Make the project gloabal and user freindly.

Ai-Team 15

Thankyou