

# Group 3

SPRINT 4



# Agenda

New features

Tests with entire database

Feedback: tests with other regions

Demo

Next steps

# 01 New features

# Last sprint

Supplier Name  
Normalized Supplier Name  
Parent Supplier Name  
Region  
Country Name  
Strategic Region  
Requestor Name  
Preparer Name  
Level 1  
Business Unit  
Legal Entity  
Cost Center  
Cost Center (Base Level)  
Cost Center (Level 4)  
Cost Center (Level 5)  
Cost Center (Level 6)  
GL Desc (Level 4)  
GL Desc (Level 5)  
GL Desc (Level 6)  
Invoice ID  
Invoice Number  
Invoice Source  
GL Description  
Product  
Project  
Month, Day, Year of Payment Date  
PO Number  
Amount USD

# Now

Supplier Name  
Normalized Supplier Name  
Parent Supplier Name  
Region  
Country Name  
Strategic Region  
Requestor Name  
Preparer Name  
Level 1  
Business Unit  
Legal Entity  
Cost Center  
Cost Center (Base Level)  
Cost Center (Level 4)  
Cost Center (Level 5)  
Cost Center (Level 6)  
GL Desc (Level 4)  
GL Desc (Level 5)  
GL Desc (Level 6)  
Invoice ID  
Invoice Number  
Invoice Source  
GL Description  
Product  
Project  
Month, Day, Year of Payment Date  
PO Number  
Amount USD

# Last sprint

- Train acc: 72%
- Tests acc: 68%
- 100.000 data (25%)
- Train: 70%
- Test: 30%
- + 10 isolated tests

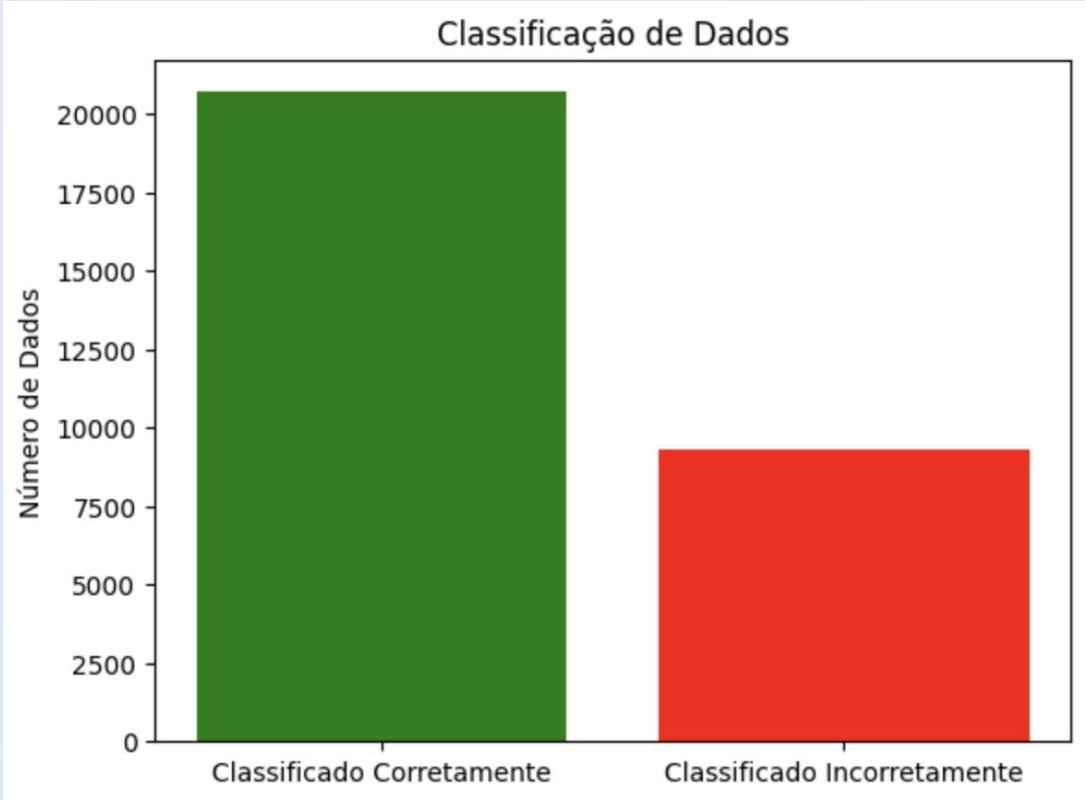
```

  Acurácia de treino e teste

  print('Acuracia (treino): ', neigh.score( x_train, y_train ))
[23]
... Acuracia (treino):  0.7182571428571428

  print('Acuracia (teste): ', neigh.score( x_test, y_test ))
[24]
... Acuracia (teste):  0.6880666666666667

```



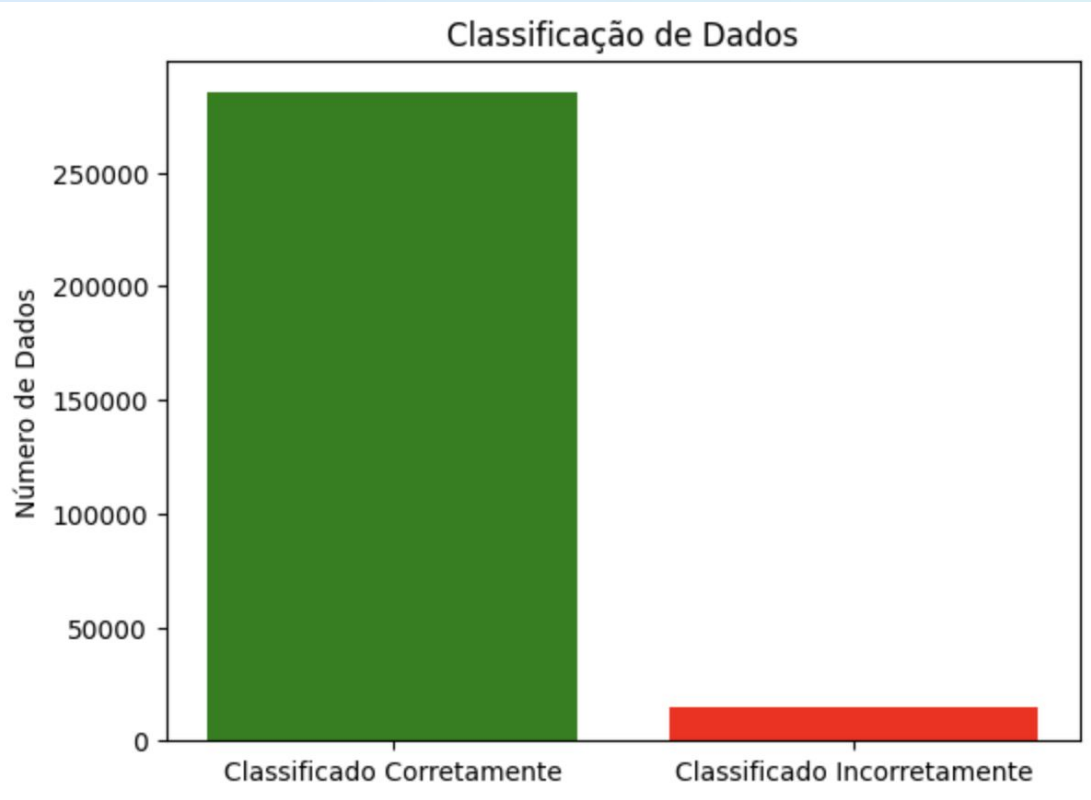
# Now

- Train acc: 94.5%
- Tests acc: 93.9%
- 474.229 data (100% NORAM)
- Train: 30% (150.000 aprox)
- Test: 70% (300.000 aprox)

```

[474229 rows x 8788 columns]
Acuracia (treino):  0.9453566508280147
Acuracia (teste):  0.9393031109076067
* Serving Flask app 'api_modelo'
* Debug mode: off

```



## 02 Tests with entire database

## 02 TESTS WITH ENTIRE DATABASE

```
[100000 rows x 5598 columns]  
Acuracia (treino): 0.9438857142857143  
Acuracia (teste): 0.9306  
* Serving Flask app 'api_modelo'
```

```
[474229 rows x 8788 columns]  
Acuracia (treino): 0.9453566508280147  
Acuracia (teste): 0.9393031109076067  
* Serving Flask app 'api_modelo'  
* Debug mode: off
```

## 03 Feedback: Tests with other regions



# 04 Demo

# 05 Next Steps

# 01

- Business understanding
- RNFs
- Data analysis
- Simulations v01

# 02

- Assessment of the current system (technologies)
- Architecture 2.0 (specification and enhancement)
- Explore AI entry points
- Component simulation

# 03

- Development of non-functional tests
- Implementation of architectural mechanisms
- TDD

# 04

- Machine learning improvements (data normalization, other features...)
- Deep analysis on the results
- Architecture trade-offs

# 05

- Classification precision
- Tests with other regions
- Other Levels?

 Meta

inteli 