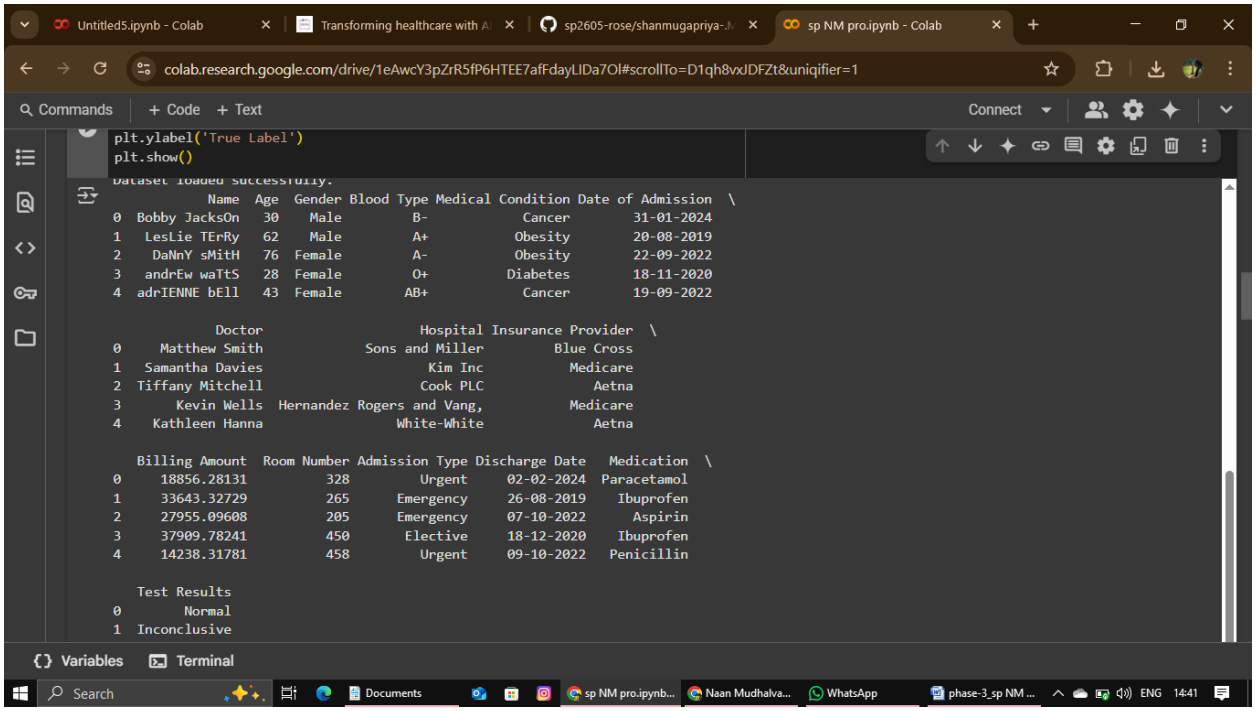
Untitled5.ipynb - Colab
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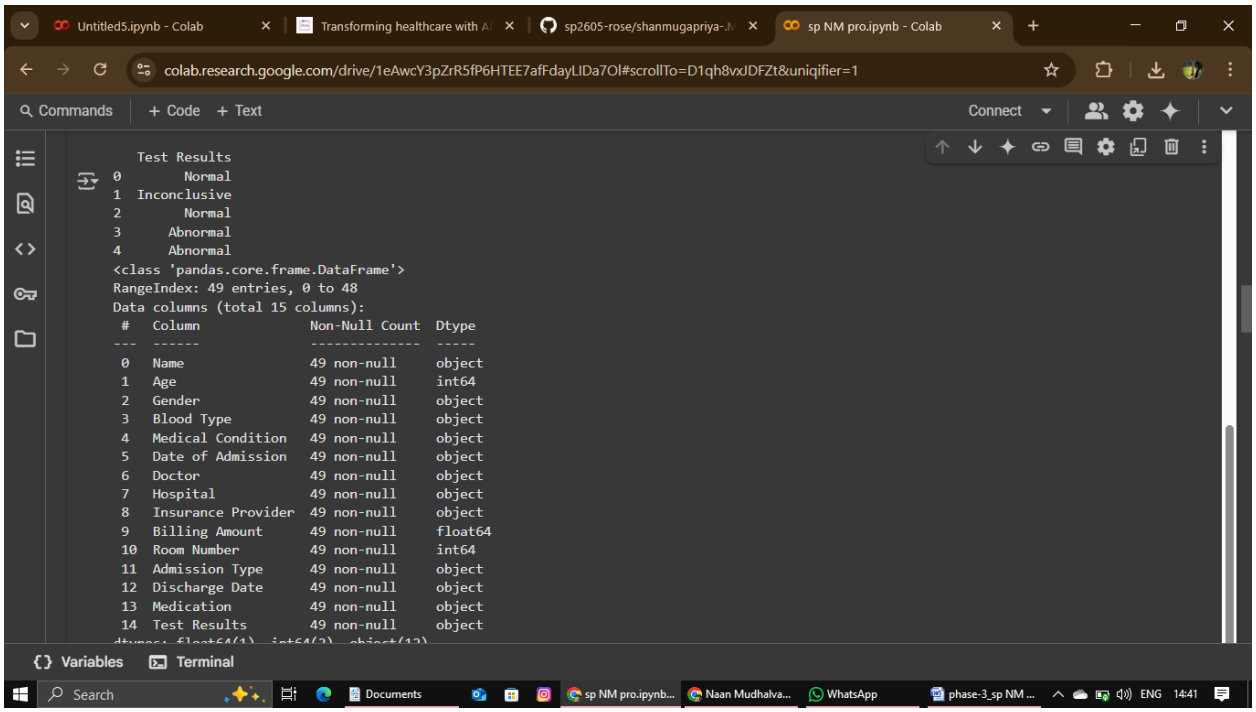
sp2605-rose/shanmugapriya-M
sp NM pro.ipynb - Colab
colab.research.google.com/drive/1eAwcY3pZrR5fP6HTEE7afFdayLIDa7OI#scrollTo=D1qh8vxJDFZt&uniqifier=1
Commands
+ Code
+ Text
Connect
plt.ylabel('True Label')
plt.show()
Dataset loaded successfully.
Name Age Gender Blood Type Medical Condition Date of Admission \
0 Bobby JacksOn 30 Male B- Cancer 31-01-2024
1 Leslie TErRy 62 Male A+ Obesity 20-08-2019
2 DaNnY sMitH 76 Female A- Obesity 22-09-2022
3 andrEw waTtS 28 Female O+ Diabetes 18-11-2020
4 adrIENNE bEll 43 Female AB+ Cancer 19-09-2022
Doctor Hospital Insurance Provider \
0 Matthew Smith Sons and Miller Blue Cross
1 Samantha Davies Kim Inc Medicare
2 Tiffany Mitchell Cook PLC Aetna
3 Kevin Wells Hernandez Rogers and Vang, Medicare
4 Kathleen Hanna White-White Aetna
Billing Amount Room Number Admission Type Discharge Date Medication \
0 18856.28131 328 Urgent 02-02-2024 Paracetamol
1 33643.32729 265 Emergency 26-08-2019 Ibuprofen
2 27955.09608 205 Emergency 07-10-2022 Aspirin
3 37909.78241 450 Elective 18-12-2020 Ibuprofen
4 14238.31781 458 Urgent 09-10-2022 Penicillin
Test Results
0 Normal
1 Inconclusive
Variables
Terminal
Search
Documents
sp NM pro.ipynb...
Naan Mudhalva...
WhatsApp
phase-3_sp NM ...
ENG
14:41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colab.research.google.com/drive/1eAwcY3pZrR5fP6HTEE7afFdayLIDa7OI#scrollTo=D1qh8vxJDFZt&uniqifier=1
Commands
+ Code
+ Text
Connect
Test Results
0 Normal
1 Inconclusive
2 Normal
3 Abnormal
4 Abnormal
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 49 entries, 0 to 48
Data columns (total 15 columns):
Column Non-Null Count Dtype
0 Name 49 non-null object
1 Age 49 non-null int64
2 Gender 49 non-null object
3 Blood Type 49 non-null object
4 Medical Condition 49 non-null object
5 Date of Admission 49 non-null object
6 Doctor 49 non-null object
7 Hospital 49 non-null object
8 Insurance Provider 49 non-null object
9 Billing Amount 49 non-null float64
10 Room Number 49 non-null int64
11 Admission Type 49 non-null object
12 Discharge Date 49 non-null object
13 Medication 49 non-null object
14 Test Results 49 non-null object
Variables
Terminal
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Documents
sp NM pro.ipynb...
Naan Mudhalva...
WhatsApp
phase-3_sp NM ...
ENG
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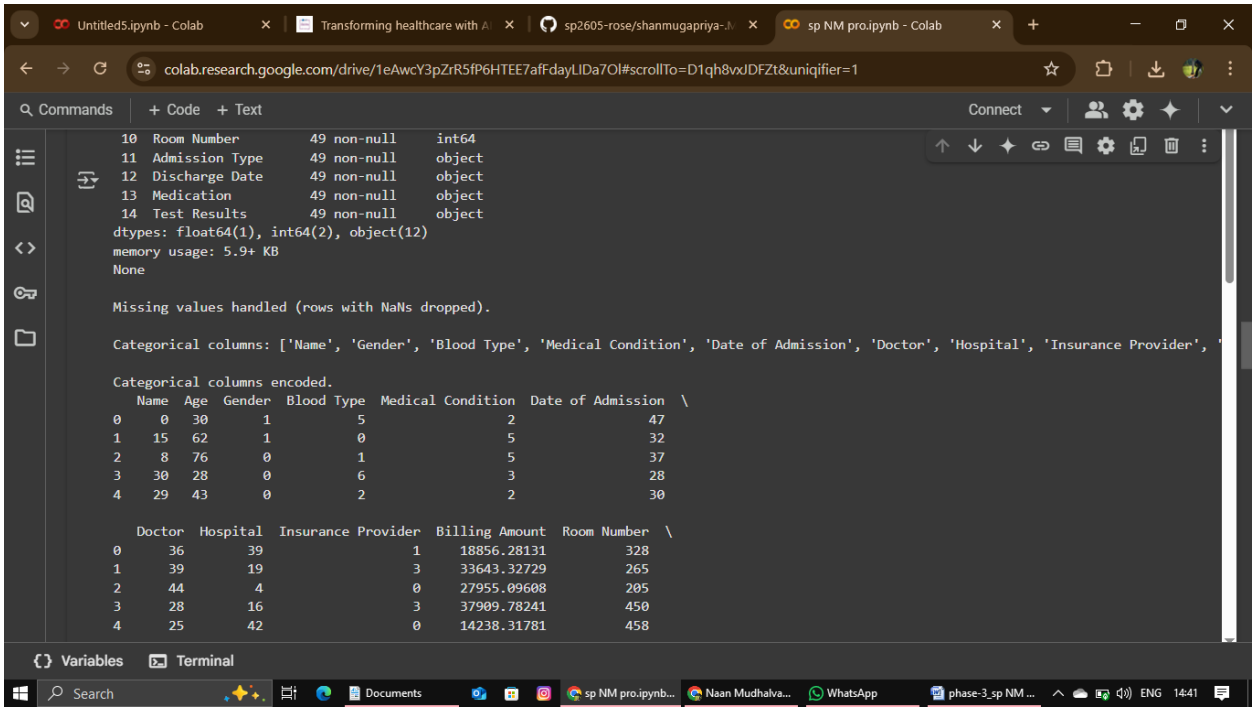
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sp NM pro.ipynb - Colab
colab.research.google.com/drive/1eAwcY3pZrR5fP6HTEE7afFdayLIDa7OI#scrollTo=D1qh8vxJDFZt&uniqifier=1
Commands
+ Code
+ Text
Connect
10 Room Number 49 non-null int64
11 Admission Type 49 non-null object
12 Discharge Date 49 non-null object
13 Medication 49 non-null object
14 Test Results 49 non-null object
dtypes: float64(1), int64(2), object(12)
memory usage: 5.9+ KB
None
Missing values handled (rows with NaNs dropped).
Categorical columns: ['Name', 'Gender', 'Blood Type', 'Medical Condition', 'Date of Admission', 'Doctor', 'Hospital', 'Insurance Provider',
Categorical columns encoded.
Name Age Gender Blood Type Medical Condition Date of Admission \
0 0 30 1 5 2 47
1 15 62 1 0 5 32
2 8 76 0 1 5 37
3 30 28 0 6 3 28
4 29 43 0 2 2 30
Doctor Hospital Insurance Provider Billing Amount Room Number \
0 36 39 1 18856.28131 328
1 39 19 3 33643.32729 265
2 44 4 0 27955.09608 205
3 28 16 3 37909.78241 450
4 25 42 0 14238.31781 458
Variables
Terminal
Search
Documents
sp NM pro.ipynb...
Naan Mudhalva...
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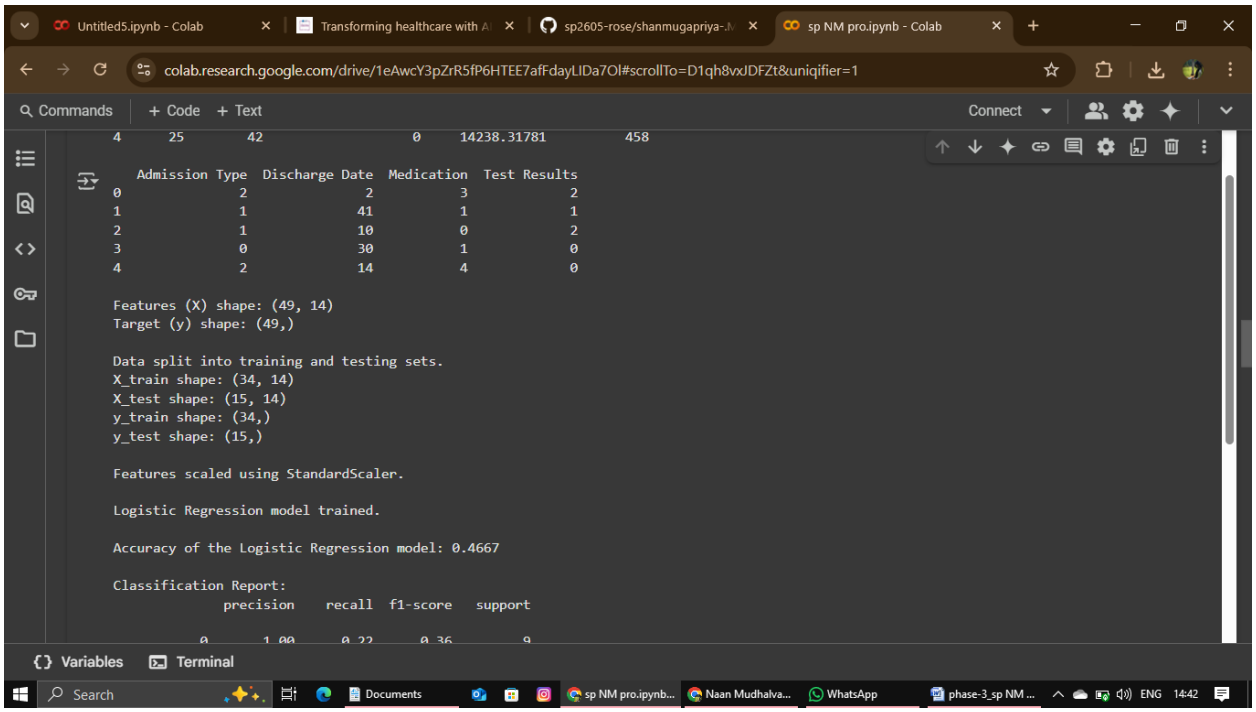
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sp NM pro.ipynb - Colab
colab.research.google.com/drive/1eAwcY3pZrR5fP6HTEE7afFdayLIDa7OI#scrollTo=D1qh8vxJDFZt&uniqifier=1
Commands
+ Code
+ Text
Connect
4 25 42 0 14238.31781 458
Admission Type Discharge Date Medication Test Results
0 2 2 3 2
1 1 41 1 1
2 1 10 0 2
3 0 30 1 0
4 2 14 4 0
Features (X) shape: (49, 14)
Target (y) shape: (49,)
Data split into training and testing sets.
X_train shape: (34, 14)
X_test shape: (15, 14)
y_train shape: (34,)
y_test shape: (15,)
Features scaled using StandardScaler.
Logistic Regression model trained.
Accuracy of the Logistic Regression model: 0.4667
Classification Report:
precision recall f1-score support
0 1.00 0.22 0.36 9
Variables
Terminal
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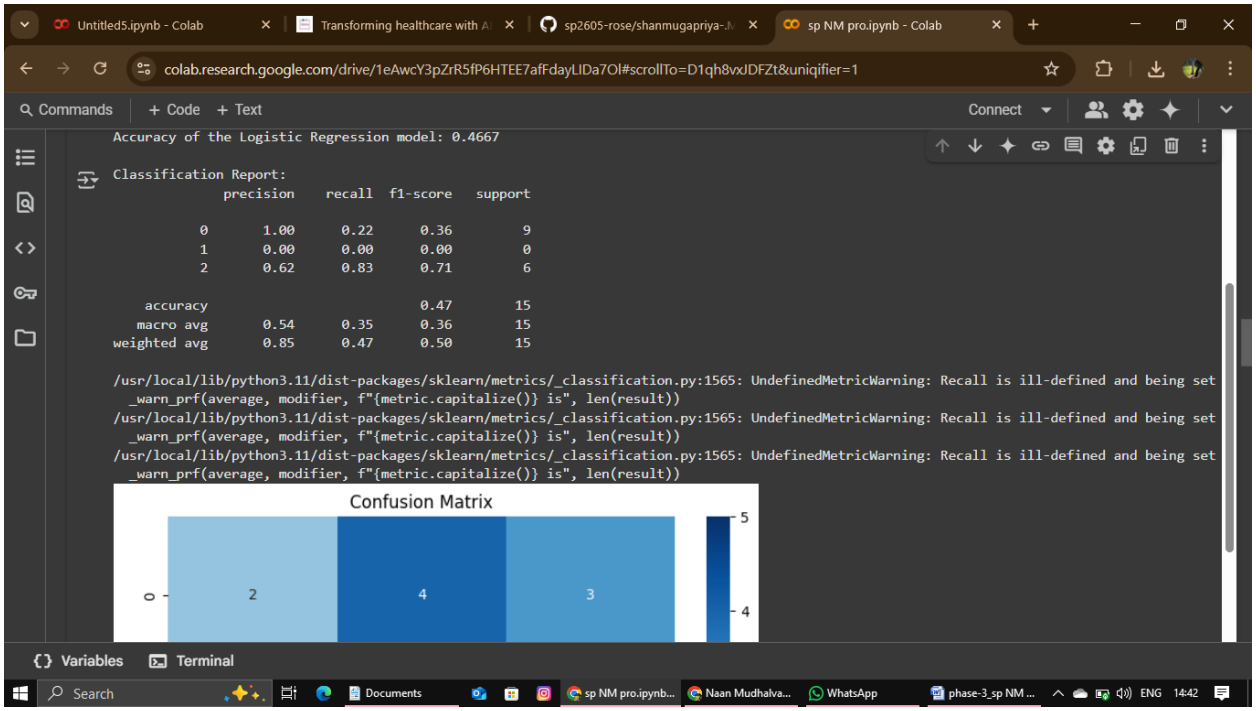
sp NM pro.ipynb...
Naan Mudhalva...
WhatsApp
phase-3_sp NM ...
ENG
14:42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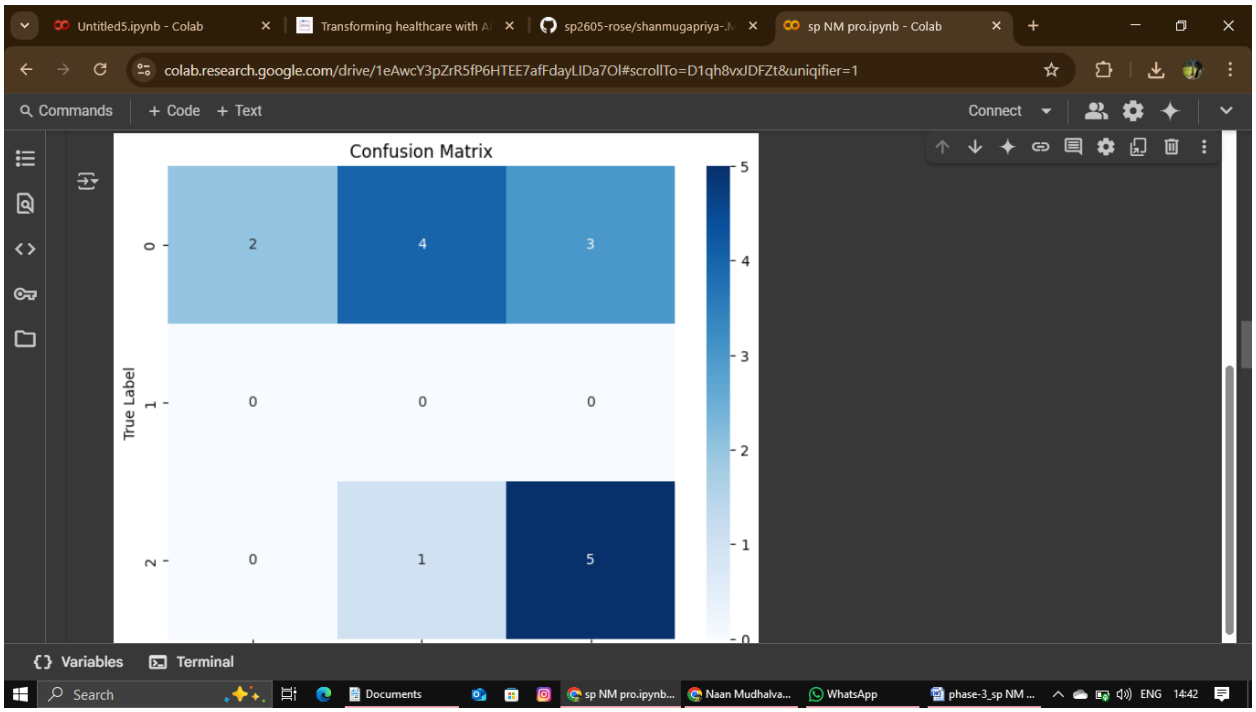
sp2605-rose/shanmugapriya-M
sp NM pro.ipynb - Colab
colab.research.google.com/drive/1eAwcY3pZrR5fP6HTEE7afFdayLIDa7OI#scrollTo=D1qh8vxJDFZt&uniqifier=1
Commands
+ Code
+ Text
Connect
Accuracy of the Logistic Regression model: 0.4667
Classification Report:
precision recall f1-score support
0 1.00 0.22 0.36 9
1 0.00 0.00 0.00 0
2 0.62 0.83 0.71 6
accuracy 0.47 15
macro avg 0.54 0.35 0.36 15
weighted avg 0.85 0.47 0.50 15
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Recall is ill-defined and being set
_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Recall is ill-defined and being set
_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
/usr/local/lib/python3.11/dist-packages/sklearn/metrics/_classification.py:1565: UndefinedMetricWarning: Recall is ill-defined and being set
_warn_prf(average, modifier, f"{metric.capitalize()} is", len(result))
Confusion Matrix
0
2
4
3
5
4
Variables
Terminal
Search
Documents
sp NM pro.ipynb...
Naan Mudhalva...
WhatsApp
phase-3_sp NM ...
ENG
14:42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sp2605-rose/shanmugapriya-M
sp NM pro.ipynb - Colab
colab.research.google.com/drive/1eAwcY3pZrR5fP6HTEE7afFdayLIDa7OI#scrollTo=D1qh8vxJDFZt&uniqifier=1
Commands
+ Code
+ Text
Connect
Confusion Matrix
True Label
0
1
2
2
4
3
0
0
0
0
1
5
5
4
3
2
1
0
Variables
Terminal
Search
Documents
sp NM pro.ipynb...
Naan Mudhalva...
WhatsApp
phase-3_sp NM ...
ENG
14:42