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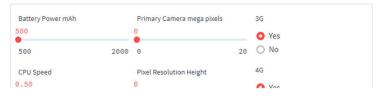**What's Inside a Smartphone?**

What's Inside a ...   ⋮

▶

MOBILE PRICE PREDICTION

Please choose your mobile features:

Battery Power mAh	Primary Camera mega pixels	3G
500	0	🔴 Yes
500 2000	0 20	⭕ No
CPU Speed	Pixel Resolution Height	4G
0.50	0	🔴 Yes

Please choose your mobile features:

Battery Power mAh

500

500	2000

CPU Speed

0.50

0.50	3.00

Front Camera mega pixels

0

0	19

Internal Memory (GB)

2

2	64

Mobile Depth in cm

0.10

0.10	1.00

Mobile Weight in gram

80

80	200

Number of cores

1

1	8

Primary Camera mega pixels

0

0	20

Pixel Resolution Height

0

0	2000

Pixel Resolution Width

500

500	2000

RAM(MB)

4000

256	4000

Screen Height cm

5

5	19

Screen Width cm

0

0	18

Talk time (hour)

2

2	20

3G

⦿ Yes
◯ No

4G

⦿ Yes
◯ No

Dual Sim

⦿ Yes
◯ No

Touch Screen

⦿ Yes
◯ No

Wifi

⦿ Yes
◯ No

Bluetooth

⦿ Yes
◯ No

Submit

Mobile Depth in cm

0.10

| 0.10 | 1.00 |

Screen Height cm

5

| 5 | 19 |

Wifi

● Yes
○ No

Mobile Weight in gram

80

| 80 | 200 |

Screen Width cm

0

| 0 | 18 |

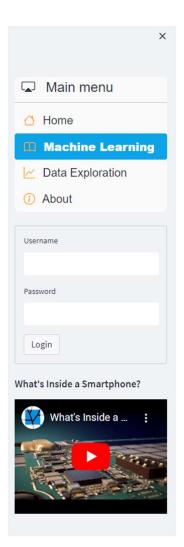Bluetooth

● Yes
○ No

Number of cores

1

| 1 | 8 |

Talk time (hour)

2

| 2 | 20 |

Submit

→ The mobile PRICE RANGE for your chosen features is : 2

⚠ Price Range Note:

0	1	2	3
Low Cost	Medium Cost	High Cost	Very High Cost

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🏠 Home

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What's Inside a Smartphone?

What's Inside a ...
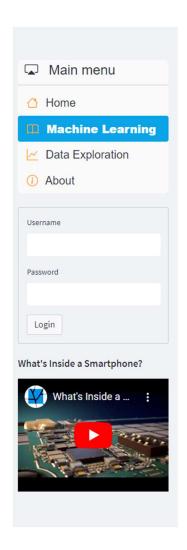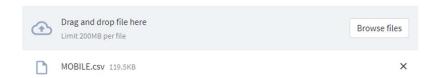
Machine Learning
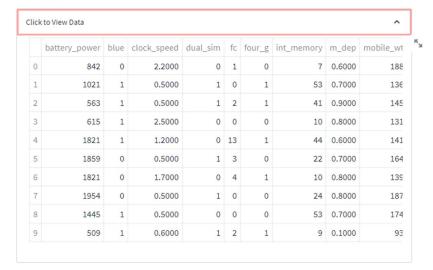
Upload your data to see the results of the machine learning model

☁ Drag and drop file here
Limit 200MB per file

Browse files
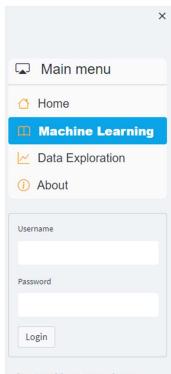
📄 MOBILE.csv 119.5KB ✕

Data preview

Click to View Data ⌄

Select features to apply Machine Learning

Features to Exclude of the model

Choose an option ▾

Start IA Engine

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What's Inside a Smartphone?

Drag and drop file here
Limit 200MB per file

Browse files

MOBILE.csv 119.5KB ✕

Data preview

Click to View Data ^

	battery_power	blue	clock_speed	dual_sim	fc	four_g	int_memory	m_dep	mobile_wt
0	842	0	2.2000	0	1	0	7	0.6000	188
1	1021	1	0.5000	1	0	1	53	0.7000	136
2	563	1	0.5000	1	2	1	41	0.9000	145
3	615	1	2.5000	0	0	0	10	0.8000	131
4	1821	1	1.2000	0	13	1	44	0.6000	141
5	1859	0	0.5000	1	3	0	22	0.7000	164
6	1821	0	1.7000	0	4	1	10	0.8000	139
7	1954	0	0.5000	1	0	0	24	0.8000	187
8	1445	1	0.5000	0	0	0	53	0.7000	174
9	509	1	0.6000	1	2	1	9	0.1000	93

Select features to apply Machine Learning

Features to Exclude of the model

Choose an option ▾

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What's Inside a Smartphone?

Choose an option ▼

Start IA Engine

Create corpus of test/training - status : Done

Download LEARNING parametres

Model results:

Accuracy: 0.864000

Confusion matrix:

	0	1	2	3
0	130	6	0	0
1	4	91	15	0
2	0	21	98	12
3	0	0	10	113
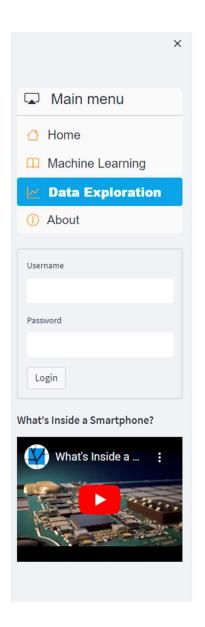
Normalized confusion matrix:

```
[0.95588235 0.04411765 0.          0.         ]

[0.03636364 0.82727273 0.13636364 0.         ]

[0.         0.16030534 0.7480916  0.09160305]

[0.         0.         0.08130081 0.91869919]
```
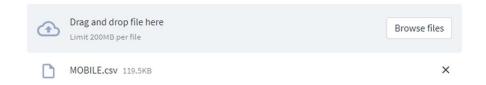
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What's Inside a Smartphone?

What's Inside a ...

Descriptive Statistics & Visualization

Upload your data to explore

☁️ Drag and drop file here
Limit 200MB per file   Browse files

📄 MOBILE.csv 119.5KB   ✕

View General of All Data

View Data	⌄

View Descriptive statistics for all features	⌄
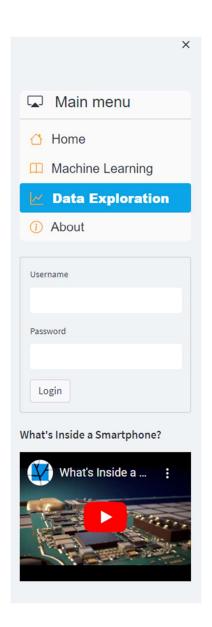
Choose features to explore in details

battery_power	▾

• *Descriptive Statistics for : battery_power*

Max	Min	Mean	Median	Standard Deviation
1998	501	1,238.5185	1,226.0000	439.3083

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What's Inside a Smartphone?

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View Descriptive statistics for all features ⌄
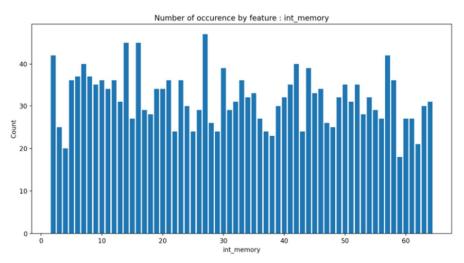
Choose features to explore in details
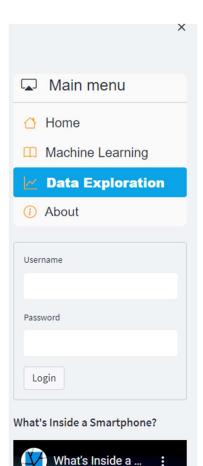
int_memory ▾
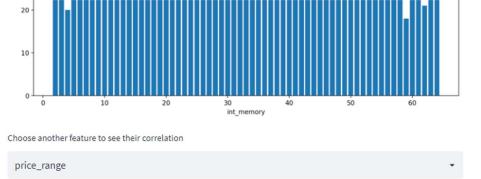
• *Descriptive Statistics for : int_memory*

	Max	Min	Mean	Median	Standard Deviation
	64	2	32.0465	32.0000	18.1412
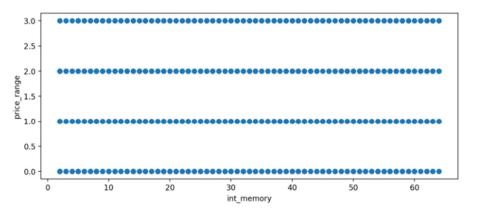
• *Distribution for : int_memory*

Number of occurence by feature : int_memory

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What's Inside a Smartphone?

What's Inside a ...

Choose another feature to see their correlation

price_range ▾
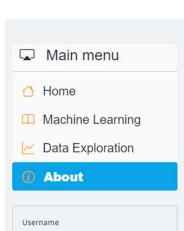
• Correlation between int_memory & price_range in scatter plot

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What's Inside a Smartphone?

Mobile Price Prediction

Cette application consiste à déterminer le prix d'un cellulaire à partir des caractéristiques choisis, ainsi à lancer un apprentissage IA sur le sujet.

Ce travail est réalisé par **Cong Son Trinh** dans le cours de **Programmation 2** de la Formation continue **"Big Data en Finance"** au **Collège de Rosemont**.

🔗 Référence du travail:

Source de données : https://www.kaggle.com/datasets/iabhishekofficial/mobile-price-classification

Documentaire sur le téléphone : https://en.wikipedia.org/wiki/Mobile_phone, https://www.phonandroid.com/smartphones-ados-top-bienfaits.html

Mes remerciements au Prof. Alaidine pour ce cours!

AppPredictionMobilePriceStreamlit_CongSonTrinh.rar - WinRAR

File   Commands   Tools   Favorites   Options   Help

Add   Extract To   Test   View   Delete   Find   Wizard   Info   VirusScan   Comment   Protect   SFX

AppPredictionMobilePriceStreamlit_CongSonTrinh.rar\ex3 - RAR archive, unpacked size 7 145 240 bytes

Name	Size	Packed	Type	Modified	CRC32
..			Dossier de fichiers		
__pycache__			Dossier de fichiers	2022-08-26 14:22	
bin			Dossier de fichiers	2022-08-24 10:31	
data			Dossier de fichiers	2022-08-24 10:17	
img			Dossier de fichiers	2022-08-26 14:21	
About.py	963	593	Fichier source Pyt...	2022-08-26 01:17	7D1C7C4E
Data.py	2 544	980	Fichier source Pyt...	2022-08-26 14:19	2A7A004B
Home.py	4 110	1 305	Fichier source Pyt...	2022-08-26 14:21	33071D39
Learning.py	2 339	968	Fichier source Pyt...	2022-08-26 13:14	6E98025B
Main.py	2 183	928	Fichier source Pyt...	2022-08-25 15:02	6A43AFC8