

# क्षि school of वा







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"Notre mission est d'offrir une éducation IA de classe mondiale à n'importe qui sur Terre gratuitement.

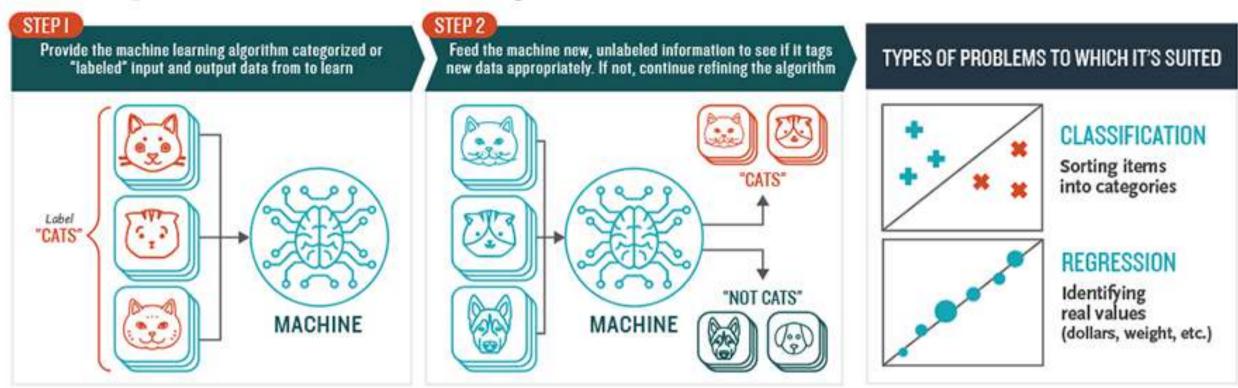
Nos portes sont ouvertes à tous ceux qui souhaitent apprendre.

Nous sommes une communauté qui s'étend sur presque tous les pays dédiée à enseigner aux étudiants comment avoir un impact positif en utilisant l'intelligence artificielle que ce soit par l'emploi ou l'entrepreneuriat. "

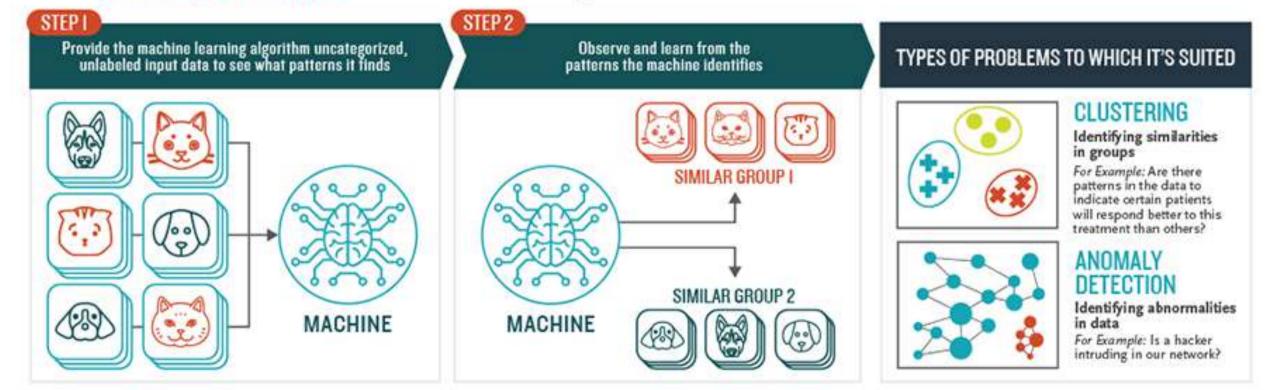


### Apprentissage Supervisé - Apprentissage Non Supervisé

### How Supervised Machine Learning Works



### How Unsupervised Machine Learning Works





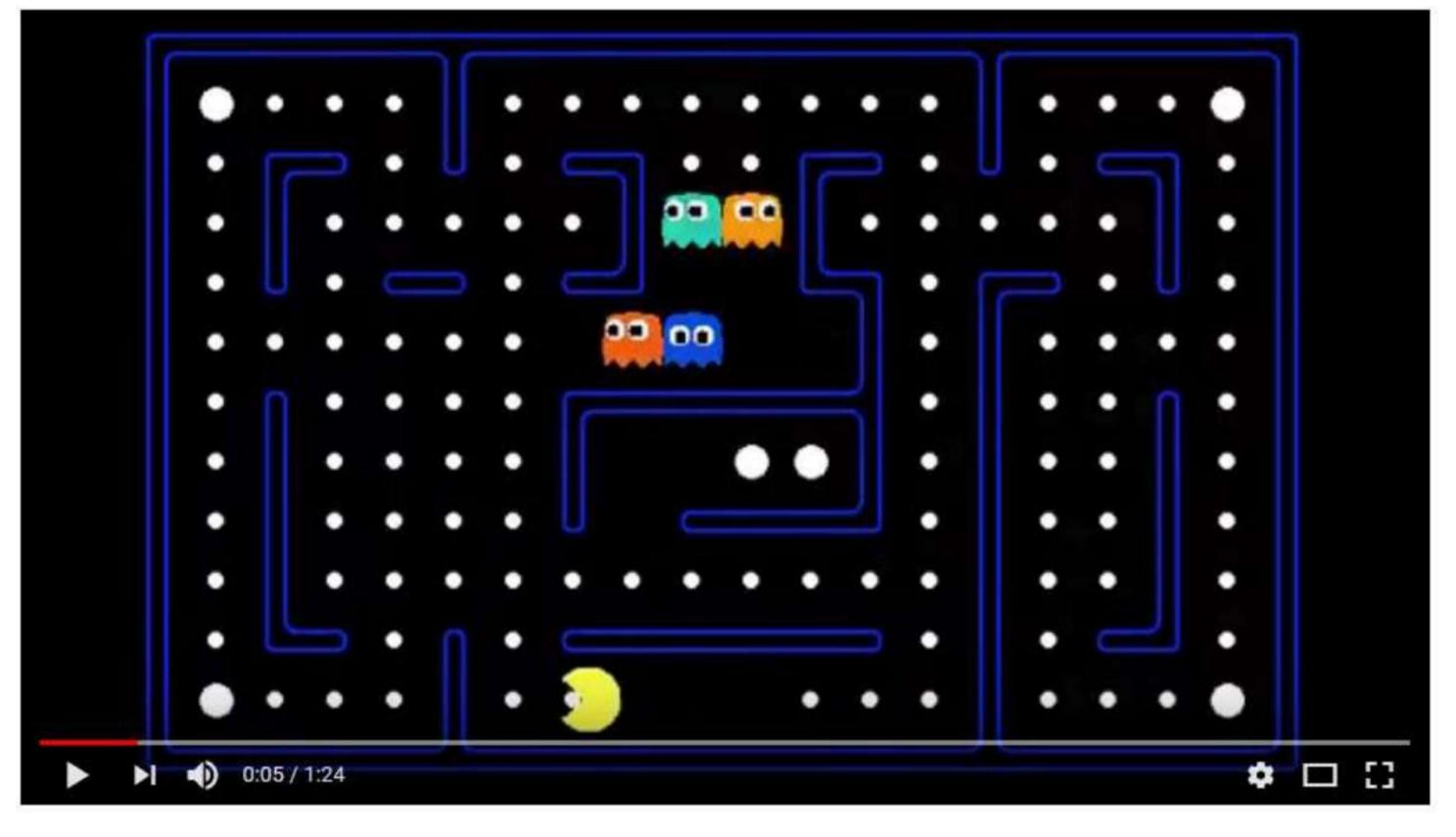




### Apprentissage par Renforcement







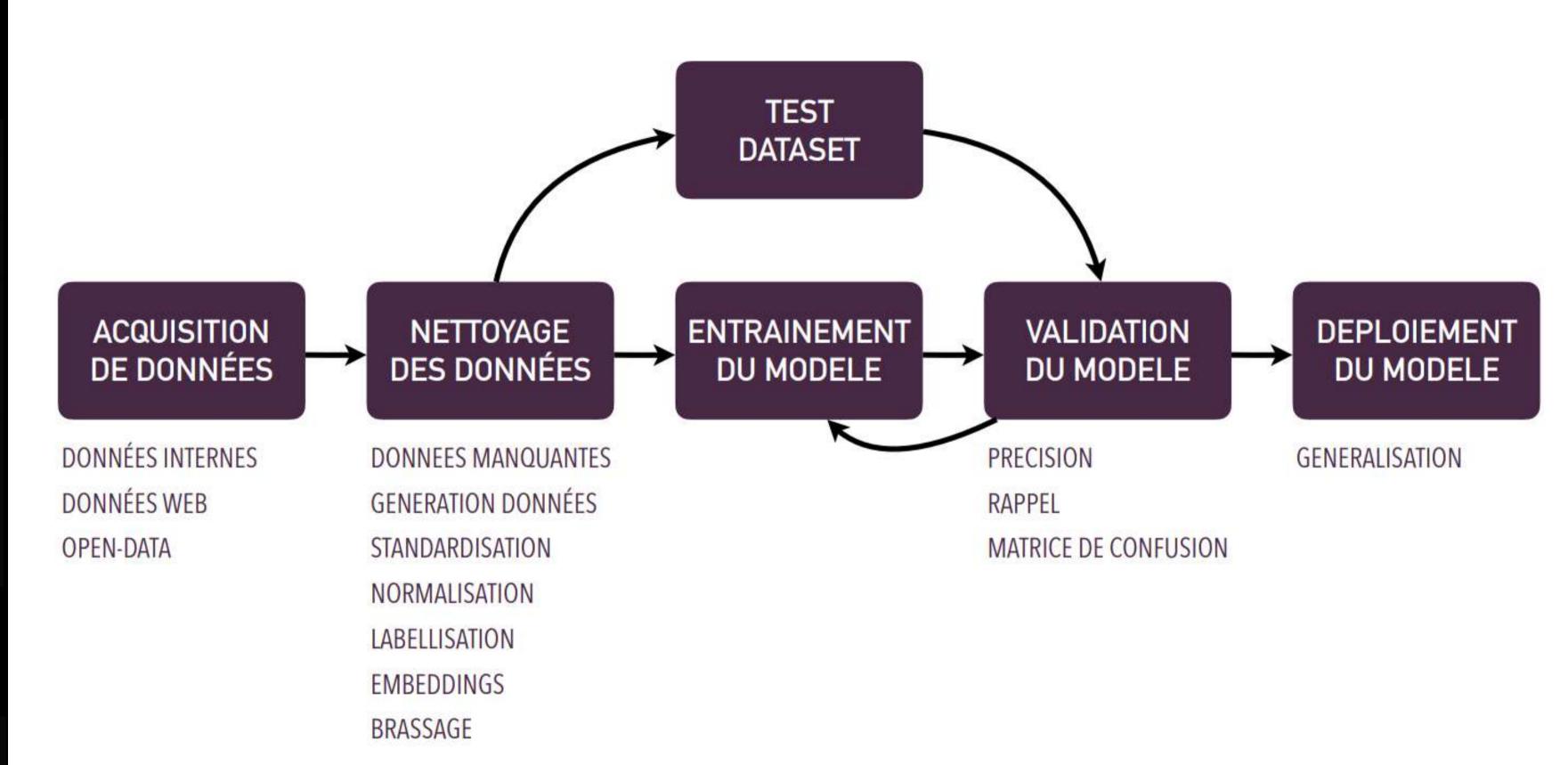


### Cycle de Vie d'un Projet d'Intelligence Artificielle

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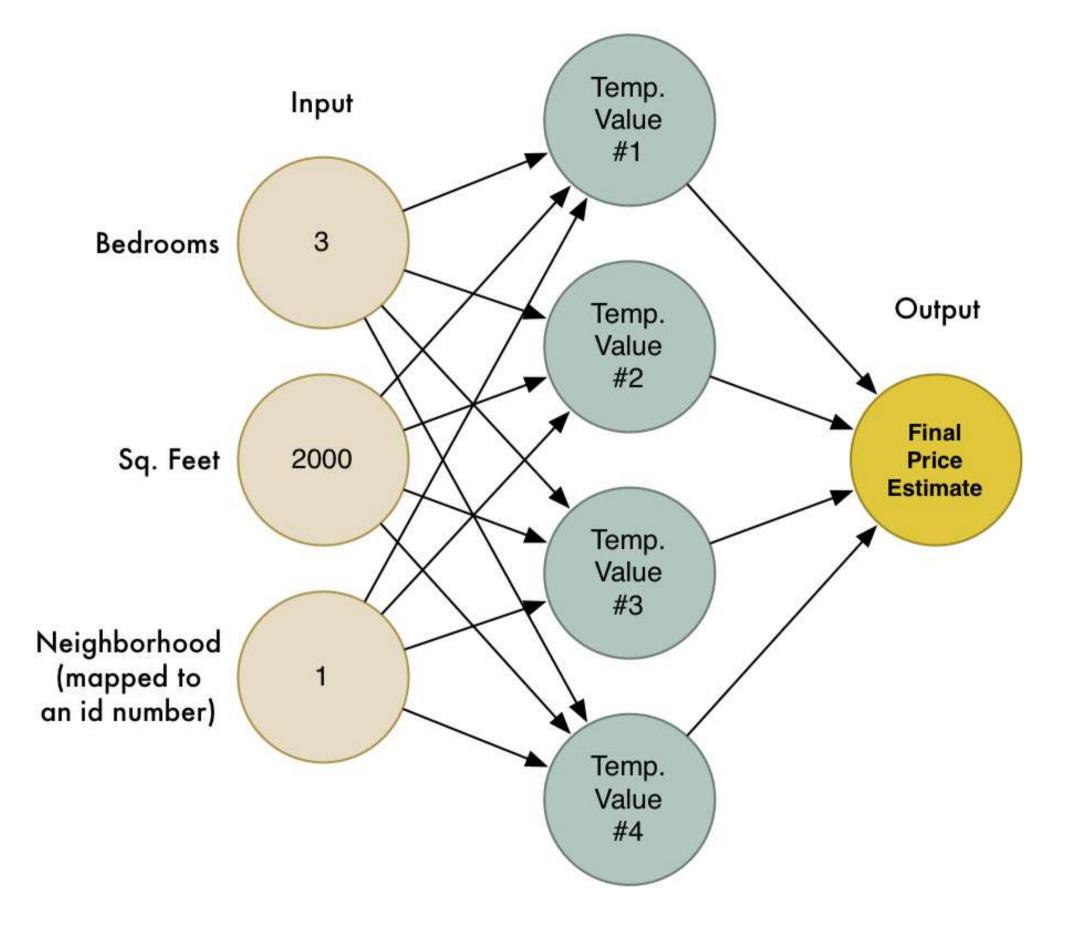








### La Hype du Projet : Le Reseau de Neurones



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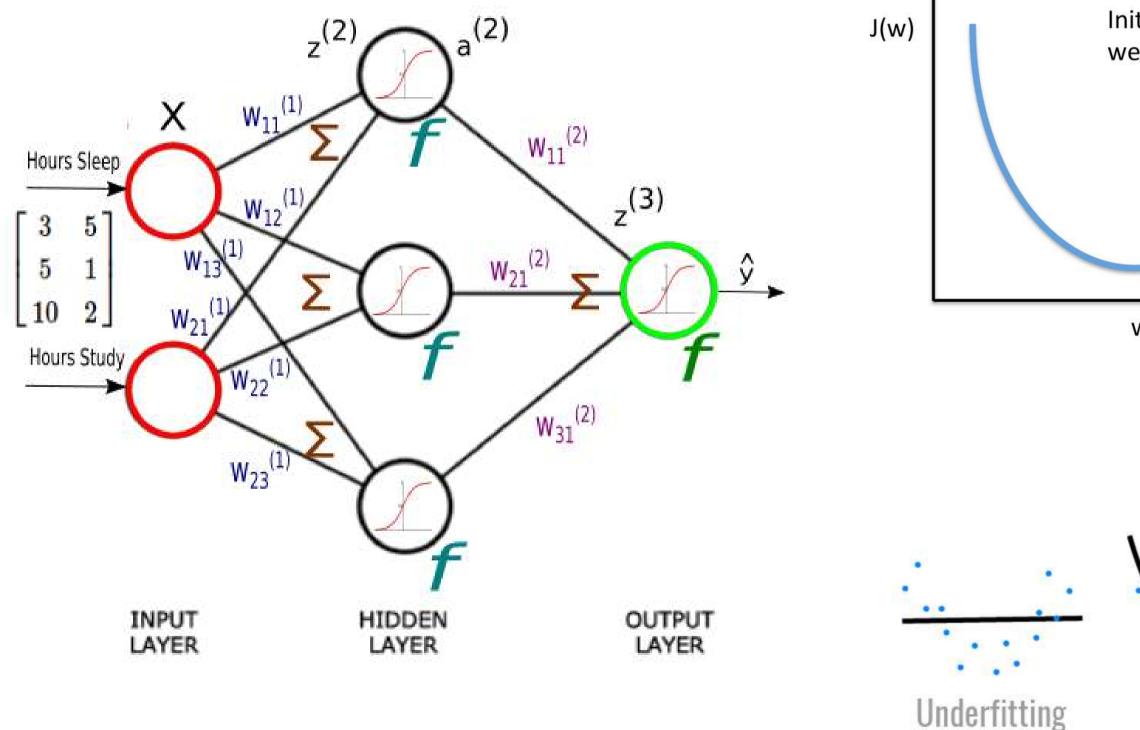


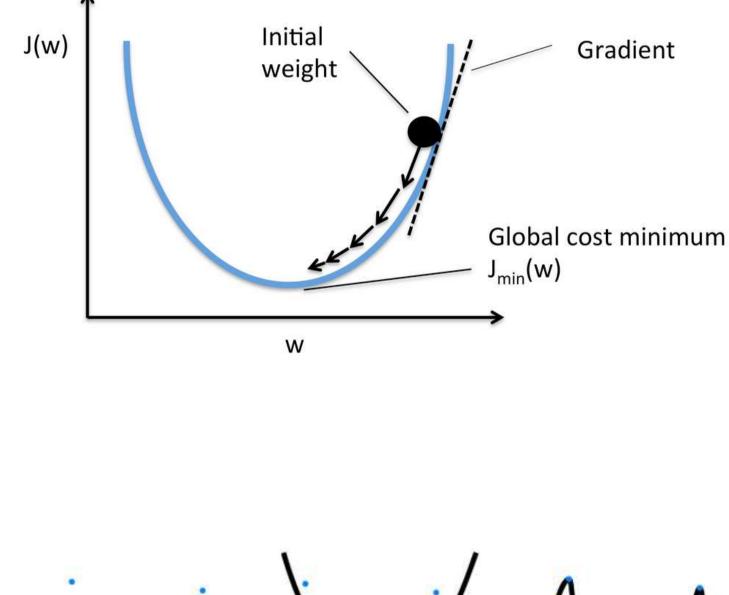


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### La Hype du Projet : L'Ajustement des Poids par Retropropagation





Desired

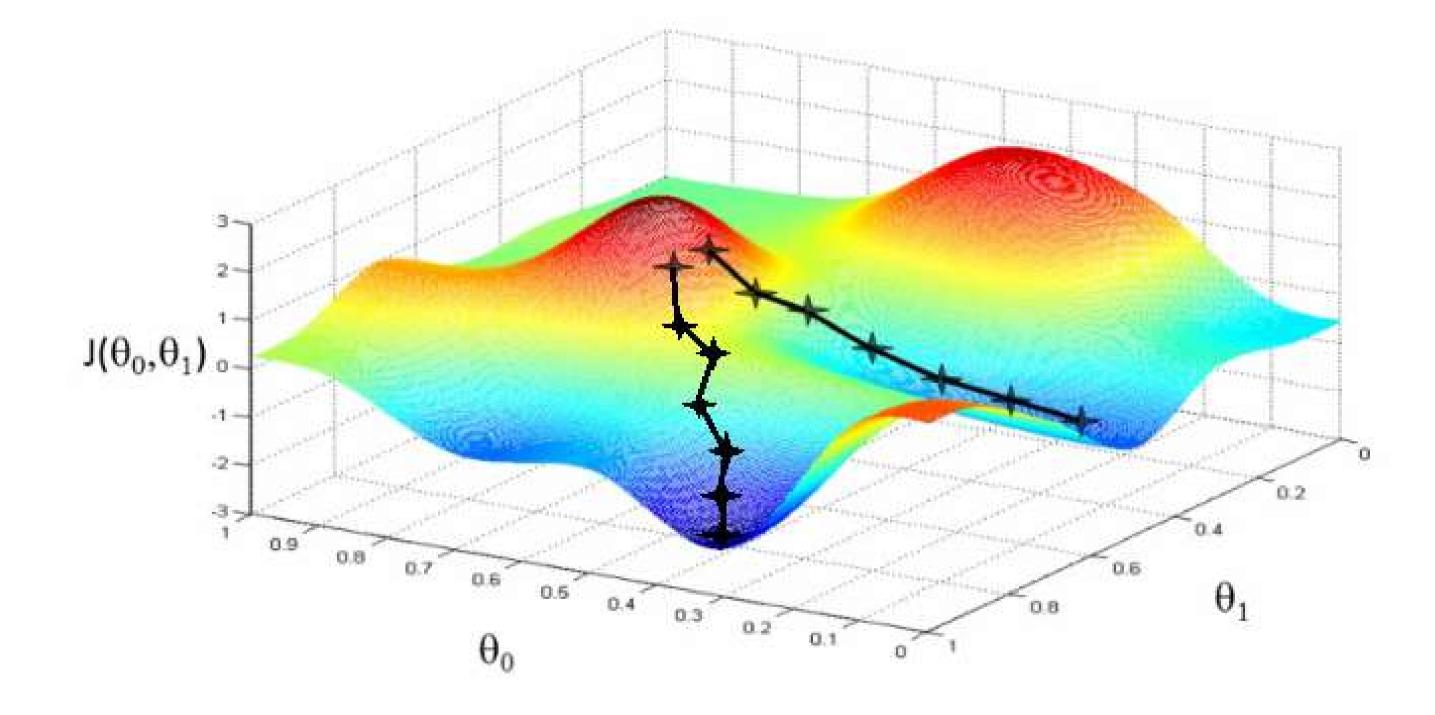
Overfitting







### La Hype du Projet : La Descente de Gradient



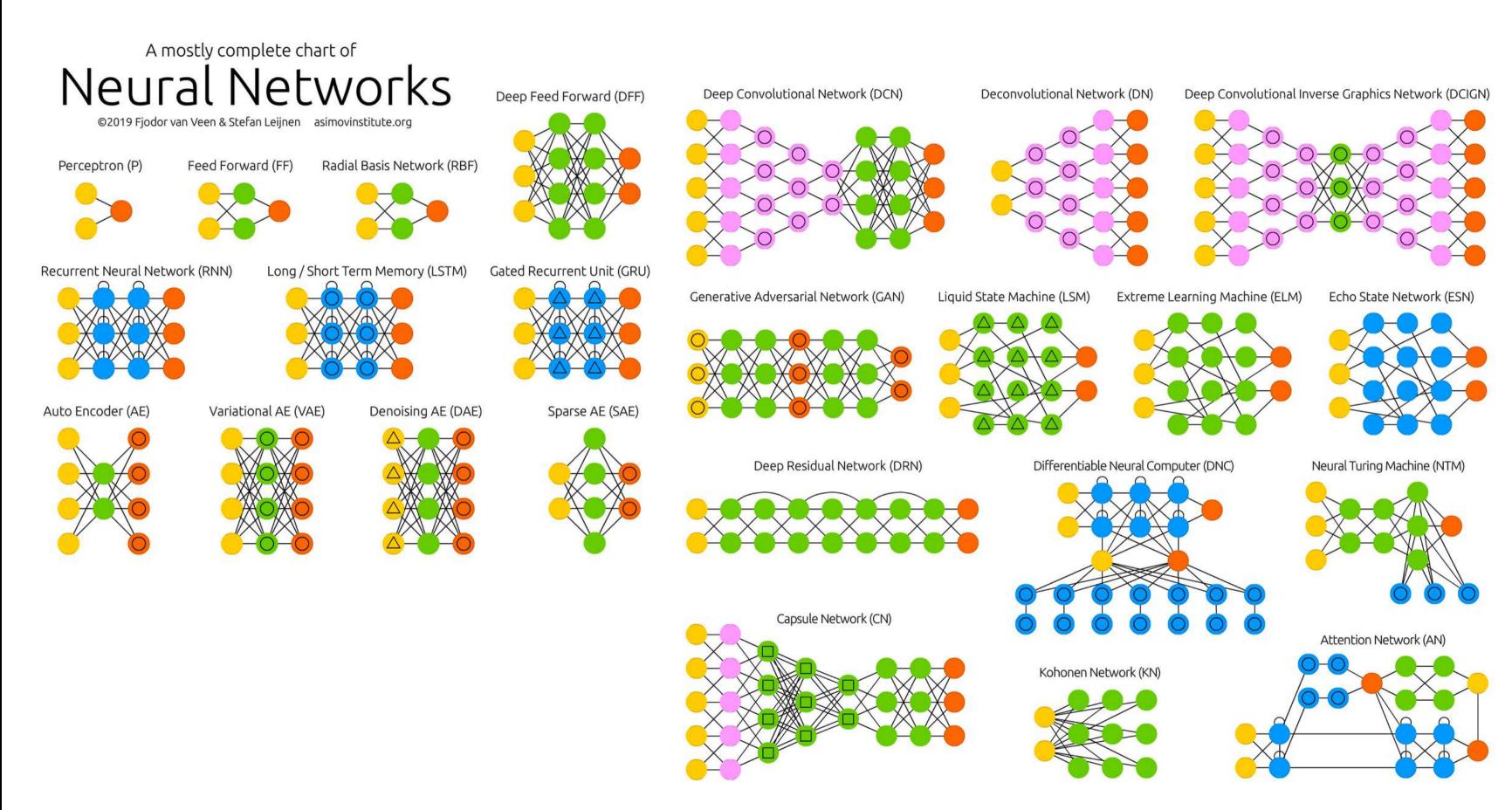






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### La Hype du Projet : Les Réseaux de Neurones



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http://www.asimovinstitute.org/neural-network-zoo/



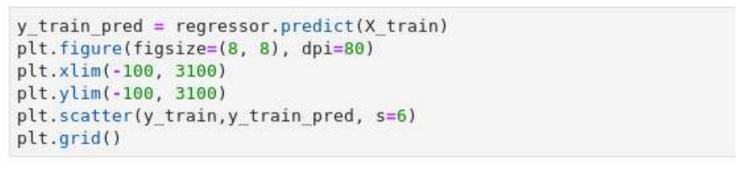
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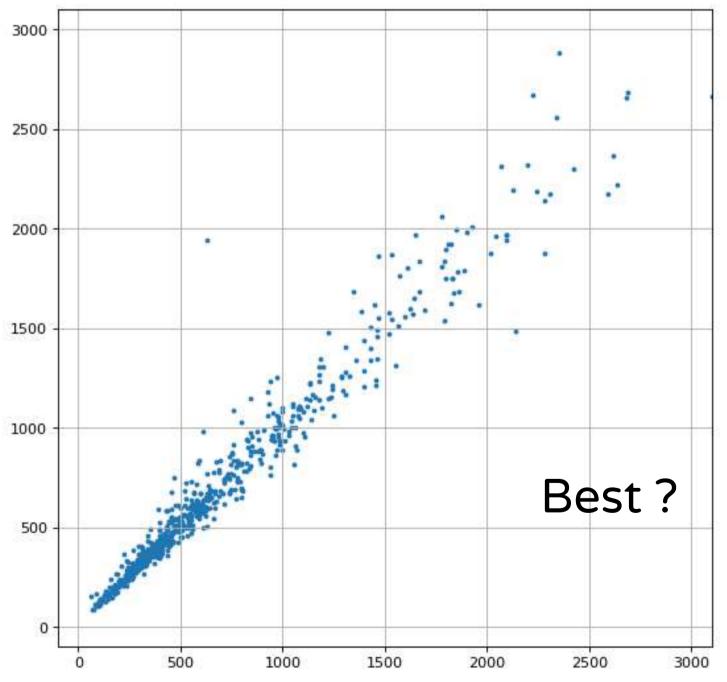


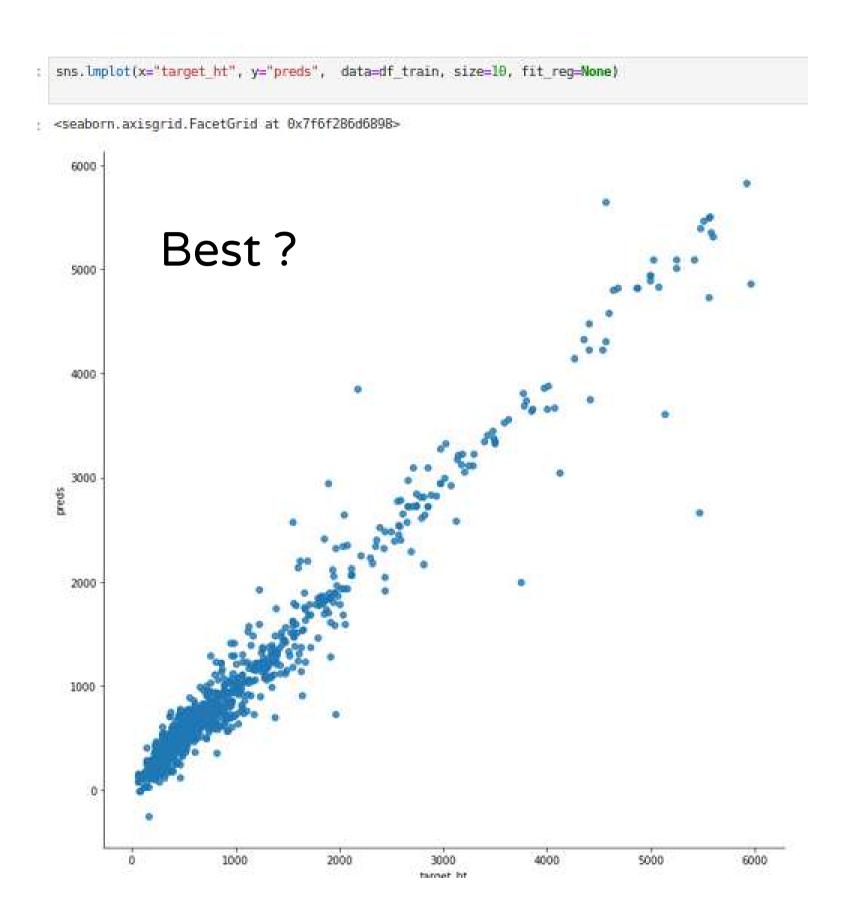




### Le Coeur du Projet : Evaluer







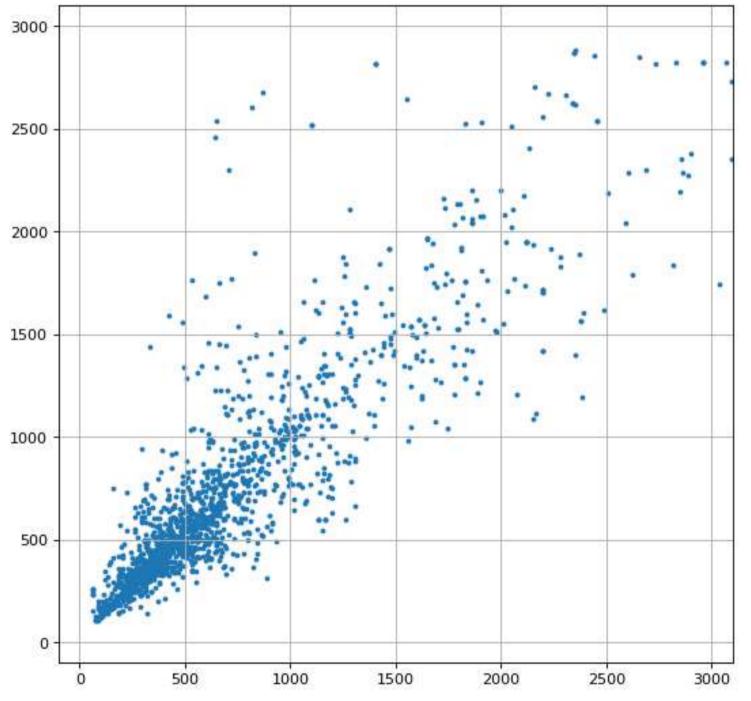
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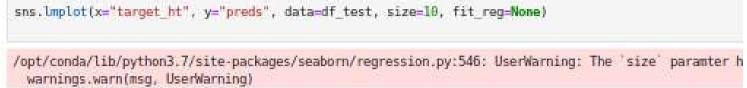


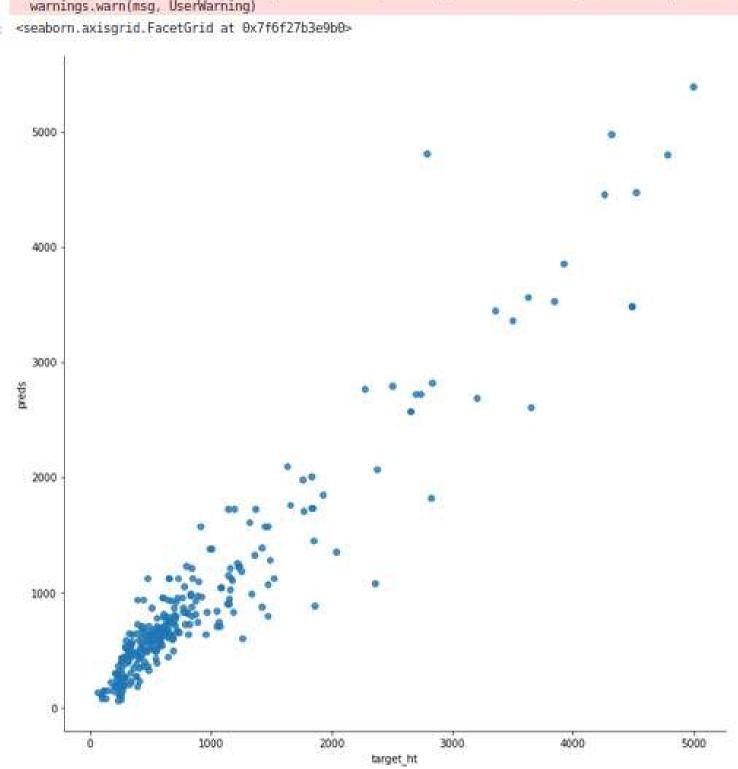


### Le Coeur du Projet : Evaluer









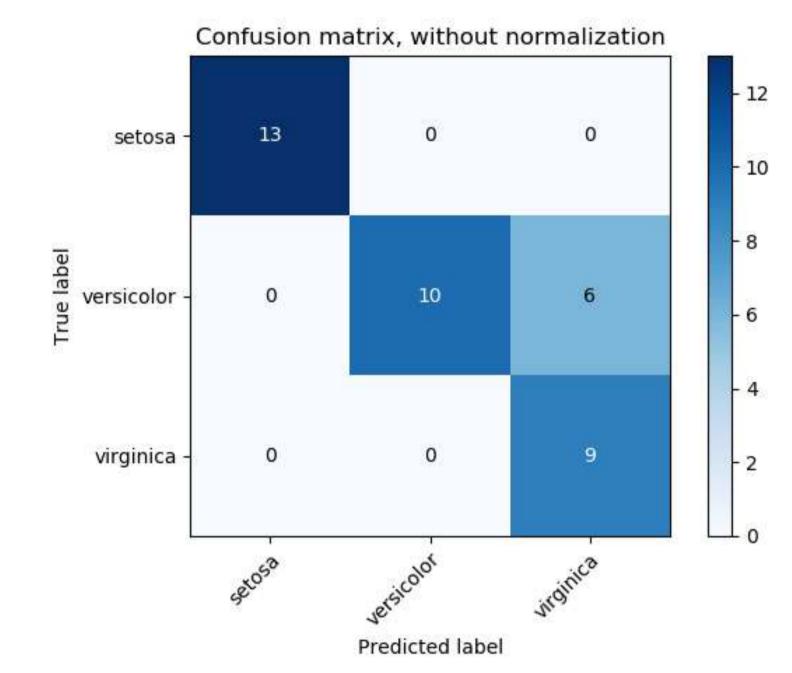
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### Le Coeur du Projet : Evaluer



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```
***********
Advanced scoring metrics for the trained regression model
Here is the overall RMSE for these predictions:
283.5733137582963
Here is the average of the predictions:
917.9434641689575
Here is the average actual value on this validation set:
892.0494699646644
Here is the median prediction:
648.0062194016177
Here is the median actual value:
593.0
Here is the mean absolute error:
174.46048370173352
Here is the median absolute error (robust to outliers):
103.8421276930926
Here is the explained variance:
0.9046860437275243
Here is the R-squared value:
0.9038846235963717
Count of positive differences (prediction > actual):
163
Count of negative differences:
Average positive difference:
```

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Average negative difference:

173.92735351964888

-175.18465219906508



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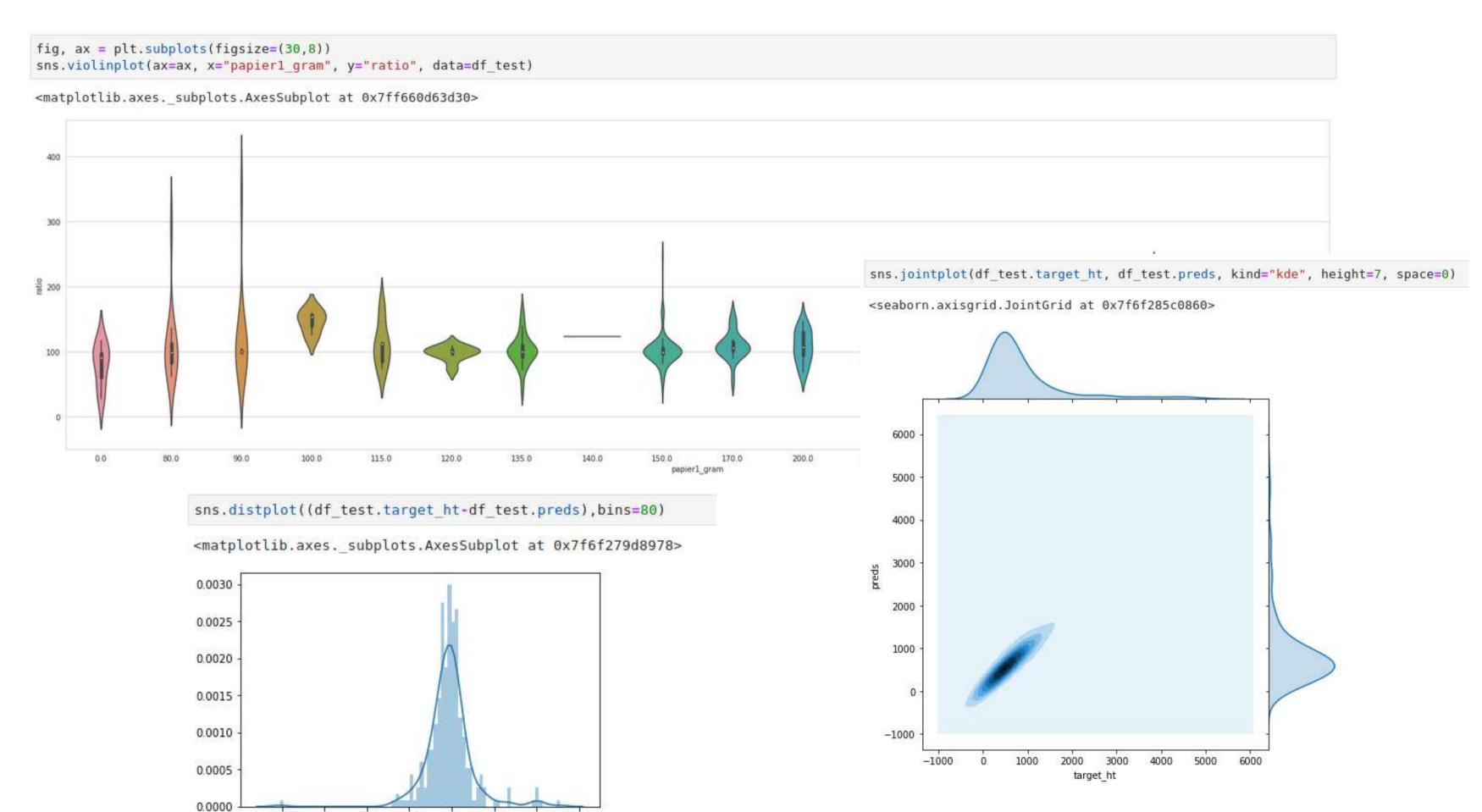


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### La Valeur du Projet : Préparer les Données

-2000 -1500 -1000

1000







### La Valeur du Projet : Préparer les Données

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	papier1_papier				
)	aucun				
1	aucun				
2	couche demi mat				
3	couche demi mat				
4	couche demi mat				
5	couche demi mat				
6	couche demi mat 2f				
7	couche demi mat 2f				
8	couche demi mat 2f				
9	couche demi mat 2f				
0	couche demi mat 2f				
1	couche demi mat 2f				
2	couche demi mat 2f				
3	couche demi mat 2f				
4	couche demi mat 2f				
5	couche demi mat 2f				
6	couche demi mat 2f				
7	couche demi mat 2f				
8	couche demi mat 2f				

aucun

papie	r1_papier_aucun	papier1_papier_couche demi mat	papier1_papier_couche demi mat 2
0	1	0	C
1	1	0	C
2	0	1	C
3	0	1	C
4	0	1	C
5	0	1	
6	0	0	i
7	0	0	
8	0	0	8
9	0	0	
0	0	0	
1	0	0	
2	0	0	÷
3	0	0	
4	0	0	ू ज
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	1	0	



### La Valeur du Projet : Préparer les Données

```
from sklearn.preprocessing import StandardScaler
scaler = StandardScaler()
df_scaled = pd.DataFrame(scaler.fit_transform(df[['surface','len_papiers','qte']]), columns=['surface','len_papiers','qte'])
```

```
df[['surface','len_papiers','qte']].head(10)
```

	surface	len_papiers	qte
0	31080.0	0	1200
1	31080.0	0	1200
2	124740.0	1	50
3	124740.0	1	50
4	124740.0	1	50
5	186850.0	1	500
6	31500.0	1	370000
7	31500.0	1	180000
8	31500.0	1	100000
9	31500.0	1	370000

df_scaled.head(10)	
--------------------	--

	surface	len_papiers	qte
0	-1.015639	-3.470085	-0.203555
1	-1.015639	-3.470085	-0.203555
2	-0.600761	-0.196901	-0.220061
3	-0.600761	-0.196901	-0.220061
4	-0.600761	-0.196901	-0.220061
5	-0.325638	-0.196901	-0.213602
6	-1.013779	-0.196901	5.089938
7	-1.013779	-0.196901	2.362813
8	-1.013779	-0.196901	1.214550
9	-1.013779	-0.196901	5.089938

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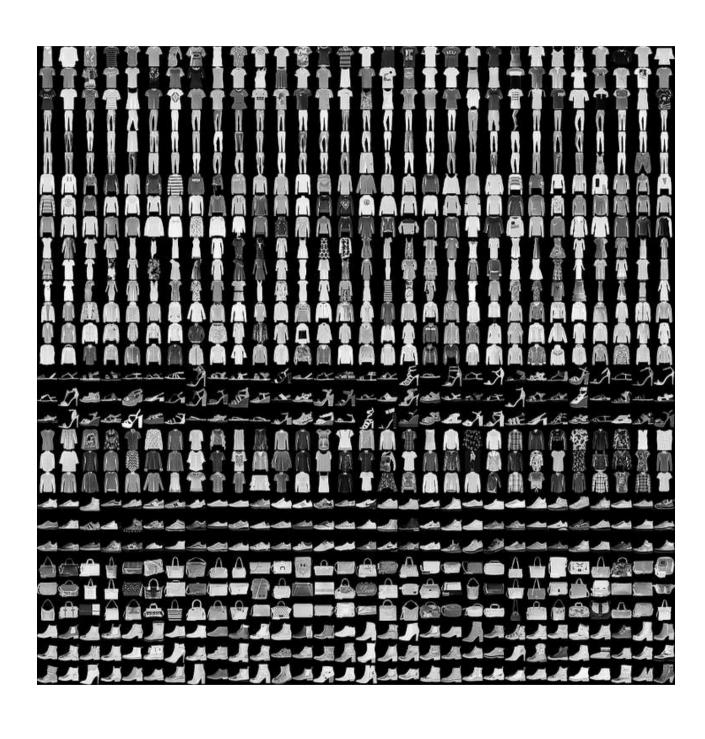
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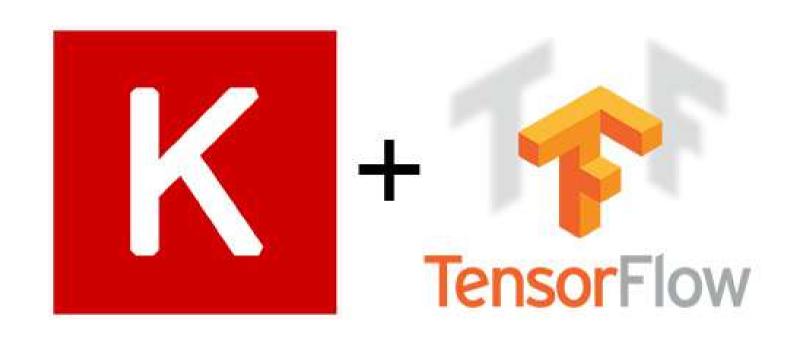




### Fashion MNIST Classification Hands-On!







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https://github.com/IALeMans/Fashion\_MNIST\_Classification