













Hacking the Data Science Resume











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BACKGROUND







07

(M)





AI GENERATES JOBS

Gartner expects to see 2.3 million jobs starting in 2021



LOTS OF JOBS

Fifty Thousand Jobs



LOTS OF DATA

90% of the world's data was generated within the past two years alone





200

6



GOAL

Recommends what are important skills, based on job descriptions.

- Helps the user keep up with new trends
- Helps the user understand differences in job titles





















The data I used was scraped from Indeed.com



















SUPERVISED LEARNING

UNSUPERVISED LEARNING

NATURAL LANGUAGE PROCESSING

DATA CLEANING







2

60

Features





Features

SQL, Python Ect.

Each one is split and is on its own



Job Description

Used a TfidfVectorizer to make the words into useable data



200

M







DATA



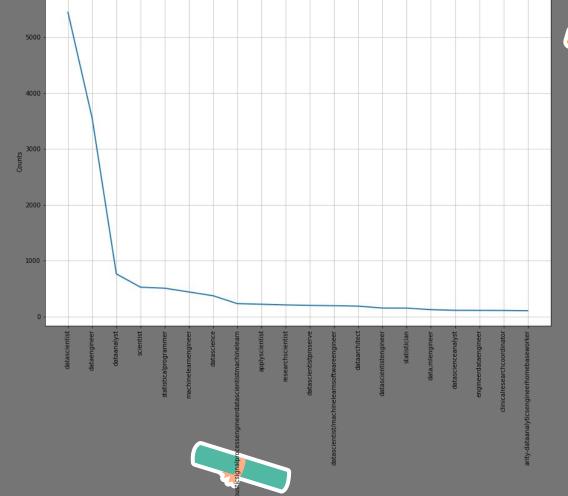












Samples













THE MODELS







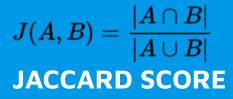


Scores









Jaccard similarity coefficient - size of the intersection divided by the size of the union of two label



$$rac{1}{|N|\cdot |L|} \sum_{i=1}^{|N|} \sum_{j=1}^{|L|} \mathrm{xor}(y_{i,j}, z_{i,j})$$

HAMMING LOSS

the fraction of the wrong labels to the total number of labels





MODEL PLACEHOLDER





IACCARD SCORE

HAMMING LOSS





| Confusion Matrix |

```
[[2742 91]
[ 78 1028]]
```

| Precision | Recall | F1 |

Precision Score: 0.95

F1 Score: 0.95

Recall Score: 0.95

| What title words are significant |

datascientist: algorithms vastly link div nine predictive python statistics ser unlimited

CLUSTERING





