

Mineração de Dados

Assistente de procura de trabalho

Alice Vieira Teixeira - pg52670

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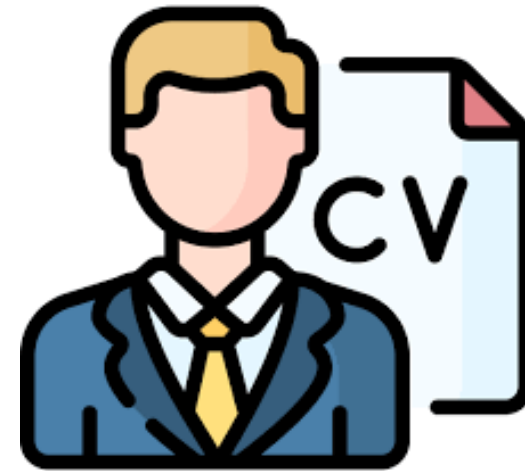
1 - Objetivos

- Criar um modelo que através da leitura de um CV encontre empregos relacionados com o cliente



Sub-objetivos:

- Criar um modelo que lê um texto e retorna skill dentro do mesmo
- Usar as skill acima para procurar na API trabalhos
- Modelo que lê CV e retira as skills



1 – Modelo de Texto

- Inicialmente, foi criado um modelo simples que recolhia as opções de um utilizador por texto

```
text = """  
Dr. John Smith is a senior researcher in Artificial Intelligence at MIT.  
He holds a PhD in Computer Science from Stanford University.  
Previously, he worked at Google in California.  
"""
```

```
Qualifications: ['Science', 'Phd', 'Artificial Intelligence', 'Computer Science']  
Locations: ['California']
```

2 – Ligação a API

- Contendo a lista de qualificações é necessario apenas recolher os trabalhos nestas areas

```
(.venv) lourenco@MBP-de-Joao MD % python3 app.py
Some weights of the model checkpoint at dbmdz/bert-large-cased-finetuned-conll03-english were not used when initializing BertForTokenClassification: ['bert.pooler.dense.bias', 'bert.pooler.dense.weight']
- This IS expected if you are initializing BertForTokenClassification from the checkpoint of a model trained on another task or with another architecture (e.g. initializing a BertForSequenceClassification model from a BertForPreTraining model).
- This IS NOT expected if you are initializing BertForTokenClassification from the checkpoint of a model that you expect to be exactly identical (initializing a BertForSequenceClassification model from a BertForSequenceClassification model).
Job listings in California:
Director, Artificial Intelligence Architecture - Visa - $176900 - 230000 per year - San Francisco, CA
Sr Product Manager AI/ML Platform - Visa - $147700 - 214150 per year - Foster City, CA
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Senior Applied Research Scientist - Computer Vision - Ambient.ai - $180000 - 200000 per year - San Francisco, CA
Senior Full-Stack Engineer in Advanced AI Technologies - Unreal Gigs - $130000 - 200000 per year - Los Angeles, CA
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Senior Scientist, Computer-Aided Drug Design (CADD) - La Jolla, California - Johnson & Johnson - $113000 - 195500 per year - San Diego, CA
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Senior Release Train Engineer - Boeing - $130900 - 177100 per year - El Segundo, CA
Senior System Reliability Engineer - Nvidia - $96000 - 166750 per year - Santa Clara, CA
Analytic Science-Scientist II - FICO - $102000 - 160000 per year - San Diego, CA
Senior Applied Scientist, Artificial General Intelligence - Amazon - $136000 per year - Sunnyvale, CA
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Applied Scientist, Ambient Perception Technology - Amazon - $136000 per year - Sunnyvale, CA
Sr. Applied Scientist, Ambient Perception Technology - Amazon - $136000 per year - Sunnyvale, CA
Academic HR Analyst III - University of California - $73900 - 133700 per year - Irvine, CA
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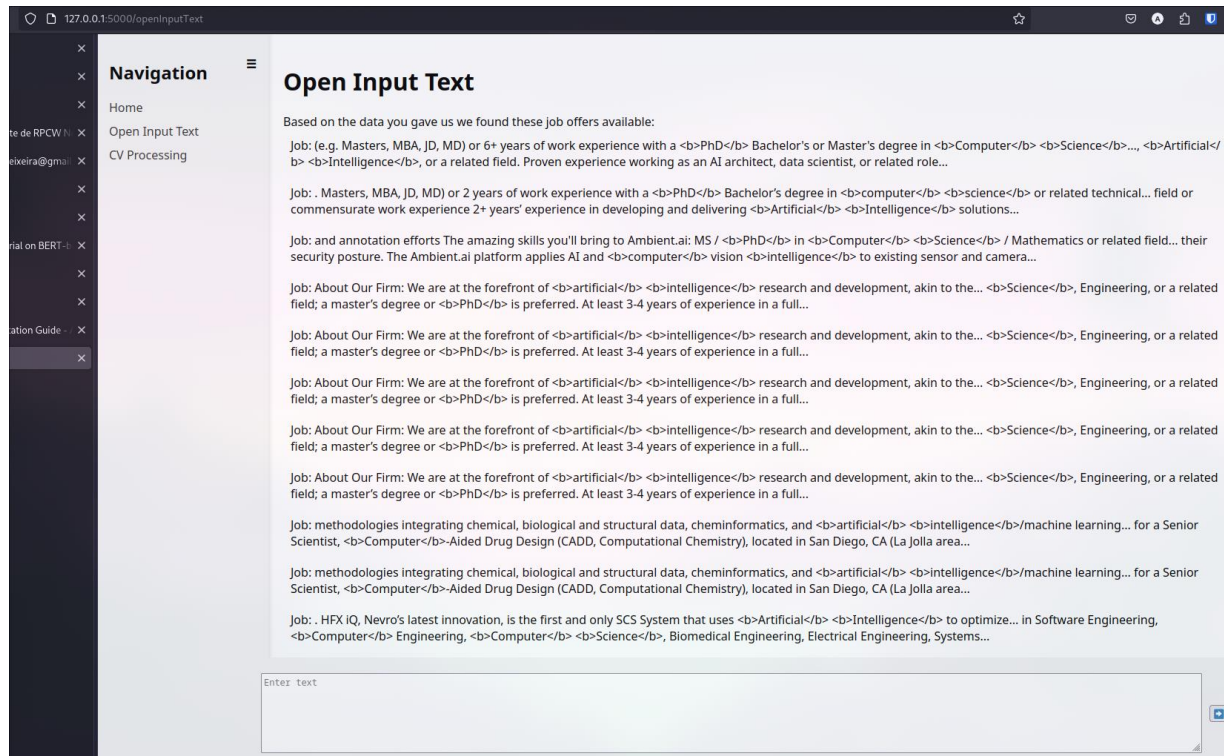
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```

3 – Leitura de CV

- De seguida foi usado um leitor de PDF para ler o ficheiro e passar o texto para o modelo previamente criado.
- No tou-se que pelo o tamanho e quantidade de tokens novos o modelo antigo não suportava tão bem este formato. Para isso tentou se fazer um Fine-Tuning do modelo.

4 – Interface

- Foi feita uma interface basica para o modelo criado.



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