

Introduction

Dependencies

csv: This module implements classes to read and write tabular data in CSV format. It allows programmers to save

operator: The operator module exports a set of efficient functions corresponding to the intrinsic operators of Py

`sklearn.metrics.pairwise.cosine_similarity`: Compute cosine similarity between samples in X and Y. Cosine simi

streamlit: Streamlit's open-source app framework is the easiest way for data scientists and machine learning engineers to create and deploy beautiful data apps in minutes.

The main concepts used in this application are:

Stop Words: Stop words are a set of commonly used words in a language. Examples of stop words in English are:

Code Explanation

`init (self)`: This is the constructor of the `ResumeMatcher` class. It initializes an empty list `self.resumes` to store resumes.

```
preprocess_text(self, text): This method preprocesses the given text by tokenizing it, converting it to lowercase
```

match resume to requirements(self, resume, requirements text): This method calculates the suitability score

rank_candidates(self, requirements: text, n): This method ranks the resumes based on their suitability scores for the given requirements and returns the top n candidates.

The application also includes a main function that uses the ResumeMatcher class to rank resumes based on a