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**Course Recommendation System**

course\_recommender.py - **Application file**

**Instructions to run:**

This file should be run after installing STREAMLIT package which runs this whole file in a localhost port (8501). If you don't have this installed, do it by giving "pip install streamlit" in the environment you're running this or run "pip install -r requirements.txt". Also ensure you have NLTK and scikit learn installed for running this program. Also make sure you have the data in separate folder (overview.csv and individual-courses.csv are the required ones). Then in the terminal, give "streamlit run course\_recommender.py" to see the magic in <http://localhost:8501>

overview.csv and individual-courses.csv - **Dataset used in recommender system application**

**Web Scraping:**

Website scraped - https://www.hostinger.com/tutorials/learn-coding-online-for-free

web\_scraping.py - **Code file**

The content from the .csv file after scraping is merged with other datasets in - df\_edu.xlsx (data set Source 4)

**EDA and Visualization:**

df\_edu.xlsx - **Dataset used**

EDA\_and\_Visualization.ipynb - **Jupyter notebook**

EDA\_and\_Visualization.py - **.py file version of the notebook**

**NOTE:** We have included static as well as interactive visualizations and during the testing phase, we encountered that the .py file is not generating the interactive visualizations in Spyder and static visualizations were not showing in Visual Studio Code. So, it would be great if our visualizations are tested on Jupyter notebook. This is beyond the application’s scope, we tried to incorporate various Python libraries and explored them by making fun visualizations that helped in generating meaningful insights for our application.