MSc_190894696_project

Introduction

A free, open-source, and offline research engine based on `BM25` and `BERT` models.
Built using `PyTorch` and `PyQt6`.

Usage

If you want to download the complete project, please click the link below:

[Download Complete Project](#)

Note that you can only input queries listed in `/data/sample_data/sample_queries.tsv`.**Because the complete dataset is too large, only test dataset was provided**

If you only want to run the UI, you don't need to download `/data/train/top100_train.csv`.

Conda environment

First, install the Python dependencies:

```
conda create -n MSc_190894696_project python==3.9
conda activate MSc_190894696_project
pip install -r environment.txt
```

Setting `PYTHONPATH` in Conda Environment

Setting the `PYTHONPATH` environment variable after activating your environment allows Python to find and import modules from directories not installed in the standard library or virtual environment paths.

For Unix/Linux/macOS:

```
export PYTHONPATH="${PYTHONPATH}:/path/to/your/module"
```

For Windows:

```
set PYTHONPATH=%PYTHONPATH%;C:\path\to\your\module
```

To run the UI:

```
python search_enging_UI.py
```