Arabic Dialect Detection App

This is a Streamlit-based web application that detects the dialect of Arabic text using a pre-trained BERT model from CAMeL-Lab.

Features

- Detects Arabic dialects: Egyptian, Gulf, Levantine, and English.
- Allows users to input multiple lines of text for batch analysis.
- Displays the predicted dialect and confidence score for each input text.
- Provides example phrases for quick testing.

Installation

1. Clone the repository:

```
git clone https://github.com/yourusername/arabic-dialect-detection.git
cd arabic-dialect-detection
```

2. Create a virtual environment and activate it:

```
python -m venv venv
source venv/bin/activate  # On Windows, use `venv\Scripts\activate`
```

3. Install the required packages:

```
pip install -r requirements.txt
```

Usage

1. Run the Streamlit app:

```
streamlit run project5_cv.py
```

2. Open your web browser and go to http://localhost:8501.

3. Enter Arabic text in the provided text area and click "Detect Dialect" to see the results.

Example

You can try the following example phrases to see how the model performs:

- "إزيك عامل إيه؟" (Egyptian)
- "شلونك يا الطيب؟" (Gulf)
- "كيفك اليوم؟" (Levantine)
- "Hello, how are you?" (English)

Files

- project5_cv.py: The main application file containing the Streamlit UI and dialect detection logic.

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