

Installation Guide for Flask-Based Facial Recognition Project

Follow these instructions to set up your environment for the Flask-based facial recognition project using DeepFace.

1. Install Python

Make sure Python 3.10 or later is installed on your system. You can download it from <https://www.python.org/downloads/>.

2. Set Up a Virtual Environment

It's good practice to use a virtual environment for your project to manage dependencies cleanly. Use the following commands:

```
python -m venv env
```

Activate the virtual environment:

```
.\env\Scripts\activate # Windows
```

3. Install Required Packages

Make sure you are inside your virtual environment before running these commands:

```
pip install Flask
```

```
pip install opencv-python
```

```
pip install numpy
```

```
pip install pandas
```

```
pip install joblib
```

```
pip install deepface
```

5. Verify Installation

Run a simple test script to check if everything is installed correctly:

```
import cv2
import numpy as np
import pandas as pd
import joblib
from deepface import DeepFace

print("All packages are installed correctly!")
```

6. Deactivate Virtual Environment

To exit the virtual environment, use:

deactivate

Notes for Your Team

Make sure to activate the virtual environment each time before running or developing the project. Keep your Python version consistent across all machines to avoid compatibility issues.

Commands Recap

1. Create and activate a virtual environment:

python -m venv env

.\env\Scripts\activate

2. Install all required packages:

pip install Flask opencv-python numpy pandas joblib deepface

Running the Project

Use the following command to run the Flask app:

python app.py