Evolutionary_Computation_HT2024

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Prerequisites

Make sure you have Python and pip installed on your machine.

1. **Install Python**

   - **Windows**: Download the installer from the [official Python website](#) and run it. Make sure to check the box that says "Add Python to PATH" during installation.

   - **macOS**: You can use Homebrew to install Python. Open your terminal and run:

     ```
     brew install python
     python -m ensurepip --upgrade
     ```

   - **Linux**: Use your package manager to install Python. For example, on Ubuntu, run:

     ```
     sudo apt update
     sudo apt install python3 python3-pip
     ```

2. **Verify the installation**

   After installation, verify that Python and pip are installed correctly by running the following commands in your terminal or command prompt:

   ```
   python --version
   pip --version
   ```

3. **Clone the repository**

   ```
   git clone https://github.com/mosmar99/PRISM.git
   cd PRISM
   ```

4. **Create a virtual environment (optional but recommended)**

```
python -m venv venv
# Activate the virtual environment
# On Windows
venv\Scripts\activate
# On macOS/Linux
source venv/bin/activate
```

5. **Install dependencies**

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

```
# if this doesn't work try restarting your terminal
chainlit --version
```

Connecting to the Gemini API

Google's gemini model has a free API version info here:

https://ai.google.dev/pricing#1_5flash

Get your Google API key here:

https://aistudio.google.com/app/apikey

Whilst in the PRISM directory type:

```
# Using windows powershell.
New-Item .env
# linux / macos
touch .env
```

open up your newly create .env file, and add the following line

```
# replace the text within the quotation marks ("") with your actual API key,
make sure you keep the quotation marks
API_KEY = "YOUR_API_KEY_GOTTEN_FROM_GOOGLE"
```

Usage

After verifying your installations as descibed above, getting your API key & creating your .env file run the application as such:

```
chainlit run .\src\main.py
```

This will open up a web application on the local network at port 8000. After the application has started you may select your chat profile at the drop down menu at the top!

If the above command doesn't work you can verify your chainlit installation by:

```
chainlit run hello
```

If that works something is probably wrong with your API key / .env file.

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