

1. Overview

The Job Fraud Detector is a Streamlit web application designed to identify potentially fraudulent job

listings using Google's Gemini Pro AI. Users can input job descriptions and receive an analysis that

includes a fraud verdict, confidence score, margin of error, and an explanation. It also includes a scam indicator questionnaire and an informative About Us section.

2. Features

- AI Tool Tab:
 - Users input job information and paste a job listing.
 - Gemini Pro analyzes the listing and returns a verdict.
 - Results include a confidence meter powered by Plotly Gauge.
 - Highlights common scammy phrases.
 - Allows exporting results as TXT, CSV, and PDF.
- Questionnaire Tab:
 - Presents a 12-question checklist based on common fraud signals.
 - Displays warnings for suspicious answers.
- About Us Tab:
 - Highlights the team, goals, tech stack, and the importance of the project.

3. Technologies Used

- Python: Backend logic and utility functions
- Streamlit: Frontend web interface
- Google Gemini Pro: AI-powered job listing analysis

- Plotly: Visualization of AI confidence as a gauge meter
- FPDF: Exporting the AI response as a formatted PDF

4. File Descriptions

- detect_copy.py: Main Streamlit application file.
- utils.py: Utility functions for saving files, exporting PDFs, etc.
- outputs/: Folder to store generated files.

5. How to Run the Application

Make sure Python 3.9+ is installed.

Step-by-step:

1. Install dependencies (if not installed):

```
pip install streamlit google-generativeai pandas plotly fpdf
```

2. Navigate to the project folder:

```
cd path/to/your/project
```

3. Run the app:

```
python3 -m streamlit run detect_copy.py
```

4. The app will open in your browser.

NOTE: If "streamlit" is not recognized in your terminal, use the full command as shown above (python3 -m streamlit ...).

6. Notes

- The confidence meter may not display values correctly if the Gemini response format deviates from

the expected pattern. Ensure proper parsing.

- The outputs/ folder must exist for files to save properly.

- AI behavior may vary slightly depending on listing wording.

This project was developed by a team of undergraduate students from FIU for their final Capstone

course.