Fake Profile Generator Project

This Python project generates synthetic user data using Faker. It features a clean Tkinter GUI for testing and learning.

GithubRepo

Team Members & Course

Mariam Marwan

ID: 231007951

Ingy Hany

ID: 231014596

Salma Ahmed

ID: 231014542

Worood Abdou

ID: 231017647

Dan Mohamed

ID: 231017562

Zeina Mohamed

ID: 231027513

Course: Introduction to Cybersecurity (CCY2001)

Project Objectives

Use Libraries

Faker and pyperclip for data generation and management.

Build GUI

Clean, user-friendly interface with Tkinter.

Export Data

Support JSON and CSV formats.

Extra Features

Dark mode, search, clipboard copy, and stats.

Tools & Technologies

Python 3.13

Core programming language. language.

Faker Library

Generates realistic fake data. data.

Tkinter

GUI framework for the interface.

pyperclip

Clipboard support for copying copying data.

Development done in Visual Studio Code.

Key Features

Multiple Profiles

Generate many profiles with chosen fields.

Export Options

Save profiles as CSV or JSON files.

Live Preview

Edit and view profiles in real-time.

Dark Mode

Toggle for better accessibility.

Additional Features

Clipboard Copy

Copy output with one click.

Search Function

Find keywords in preview text.

Profile Statistics

Shows total and gender distribution. distribution.

How It Works

1

Launch App

Start the Fake Profile Generator.

2

Input Number

Enter how many profiles to generate.

3

Select Fields

Choose data fields like name, job, address.

4

Choose Format

Pick CSV or JSON output.

5

Generate & Save

Preview and export profiles.

Project Code Structure

Profile Generation

generate_fake_profile() creates profiles profiles with selected fields.

Export Functions

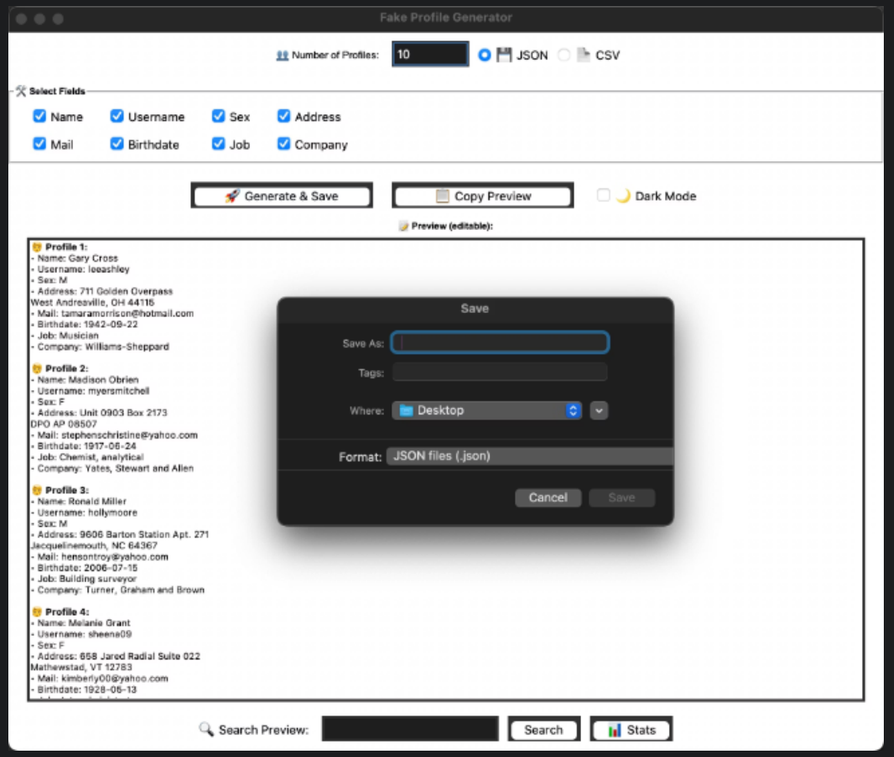
save_profiles_as_json() and save_profiles_as_csv() handle exports.

GUI Controls

Toggle dark mode, search, copy, and update update stats.

Example Output

```
{
  "name": "John Doe",
  "username": "johndoe95",
  "sex": "M",
  "address": "123 Elm Street, NY",
  "mail": "johndoe@example.com",
  "birthdate": "1995-08-12",
  "job": "Software Developer",
  "company": "TechCorp"
}
```



Conclusion

This project shows Python's power in GUI design and data handling.

Features like dark mode and live search enhance usability.

It is a valuable tool for developers, testers, and students.