Day - 14

Python Automation Challenge

Date : 14/07/2025

Duration : 24 Hours

Challenge Brief

Design and build a Python automation script or tool that auto-fills online or offline forms using a chosen dataset. You are free to pick the dataset (Excel, CSV, JSON, etc.) and the form (web-based, PDF, or GUI app). Focus on logic, efficiency, error handling, and adaptability across different form structures.

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Objective

Auto-fill Google Forms using Python (e.g., with `requests`, `selenium`, or `playwright`).

- Support for multiple forms with dynamic field mapping.
- Dataset input via CSV/Excel/JSON.
- Error handling for invalid or missing fields.
- Status reporting for each submission.
- Optional delay/randomization to simulate human input.
- CLI or GUI wrapper for ease of use.
- Form field auto-detection or manual mapping via config file.

General Guidelines

- 24-hour hackathon starts from 12AM on 14/07/2025.
- Team Size: Max 2 participants. Individual participation allowed.
- Use any tools/libraries: Selenium, BeautifulSoup, PyAutoGUI, etc.
- Only local file-based or mock webforms allowed (no real credential-based form abuse).
- Submission Deadline: 11:59PM on 14/07/2025.

Deliverables

Source code (GitHub link).
Dataset used (CSV/Excel/JSON).

Sample form(s) or screenshots of usage.
Short write-up (1–2 paragraphs) explaining how your solution works, key design decisions, and any special logic.

Demo video or screen recording .

Evaluation Criteria

- Automation Accuracy: 30%
- Efficiency & Reusability: 25%
- Creativity in Automation: 30%
- Usability & CLI/GUI Flow: 15%

Support

For any queries, reach out to:
Email: cs23i1010@iiitdm.ac.in

Name & contact: Sainath Reddy, 9390846661

WhatsApp Community: https://chat.whatsapp.com/CEjhrp1QolYLs1m4OgslMT

Submission

Please Submit here - https://forms.gle/uV7ZXBaHxTNSGAU17

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