

IGNITERS HACKATHON

Python Automation SUBMISSION

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Explanation:

I built a python automation tool using selenium to auto-fill g-forms with hospital ER data from csv. Field mappings are kept in a config file for flexibility and random delays simulate human input. Special logic handles dropdowns and satisfaction scores dynamically using javascript clicks because the dropdown and options have completely different attributes. This tool improves speed and accuracy when submitting large datasets, making it practical for real-world reporting where timely and error-free data entry is critical.

I chose this problem idea because real-time and accurate reporting of patient ER data isn't just administrative work — it's critical for *saving lives and improving public health*.

Reasons i used such tools to make my automation project:

1. selenium— to control and interact with the g-form in a real browser, also suitable for sites requiring js like rendering for dropdowns, radio buttons and so on
2. pandas – for loading and processing the csv dataset easily
3. json – for mapping in an external config.json file, so the script stays dynamic and easier to update when form structure changes
4. random & time – for adding random delays between actions, simulating human like typing which could be used for rating limits or bot detection
5. Webdriver manager – for automatic downloads and managing with correct chromedriver version