

GitHub Easy Push

Official Illustrated User Guide & Developer Manual

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1. Executive Overview

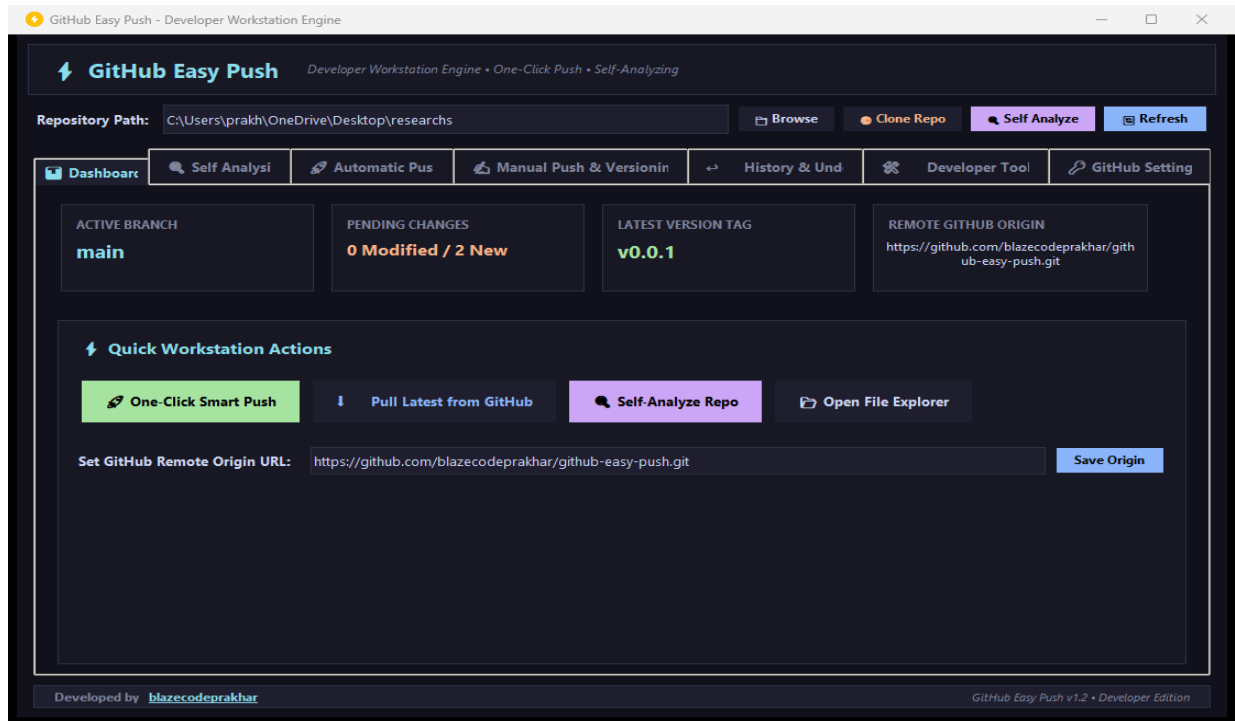
GitHub Easy Push is an automated desktop application designed to streamline software deployment, commit formatting, version tagging, and repository maintenance for Windows developers. It removes manual command line complexity while providing advanced self analysis and commit rollback tools.

Feature Module	Function & Benefit
One Click Smart Push	Scans changed files, generates timestamped update notes, stages, commits, and pushes in 1 click.
Manual Push & Versioning	Individual file staging table with automatic semantic version bumping (Patch, Minor, Major).
History & Undo Engine	Visual commit history viewer with Soft Undo (revert) and Hard Reset to target commit hash.
Self Analyzing Engine	Inspects Git repositories, commit parent lineage graphs, and .gitignore rule protection.
Developer Power Tools	Branch manager, stash manager, and ready to use .gitignore stack templates.

2. Illustrated Step by Step Guide

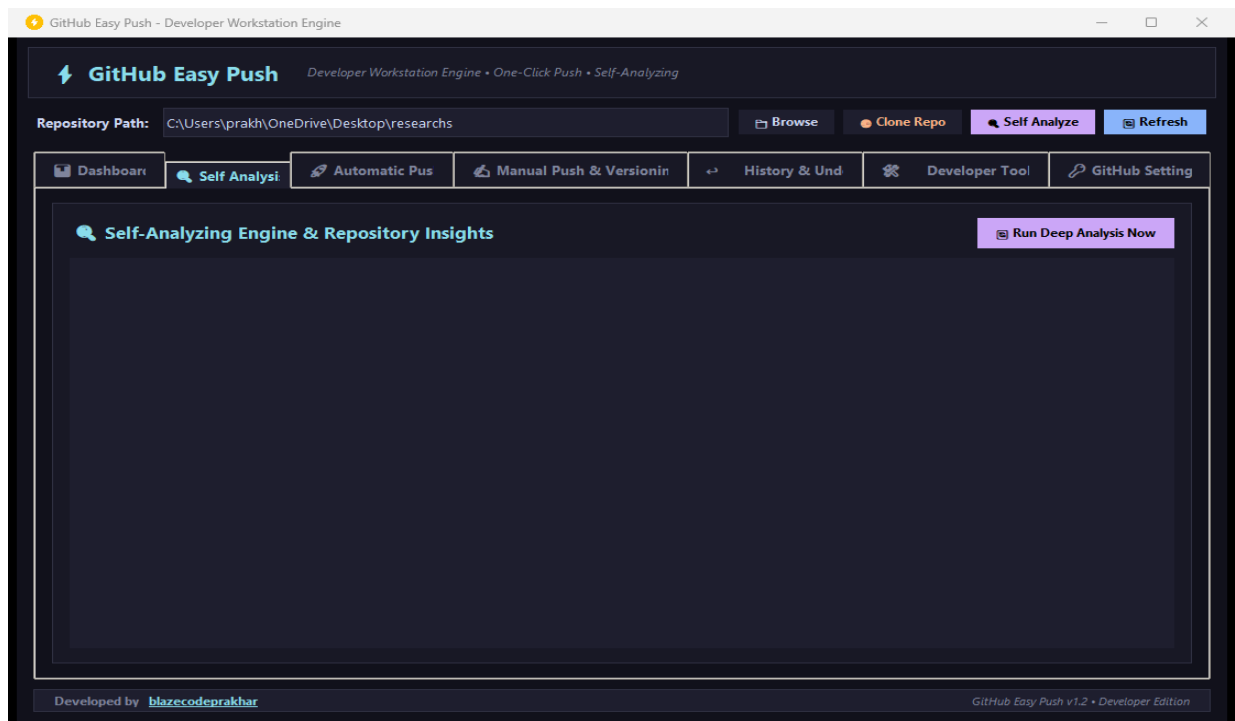
Module 1: Main Dashboard & Repository Connection

Select your project directory or click Browse. Paste your GitHub remote link into Set GitHub Remote Origin URL and click Save Origin. If your folder is not a Git repo yet, GitHub Easy Push will prompt to initialize Git for you automatically.



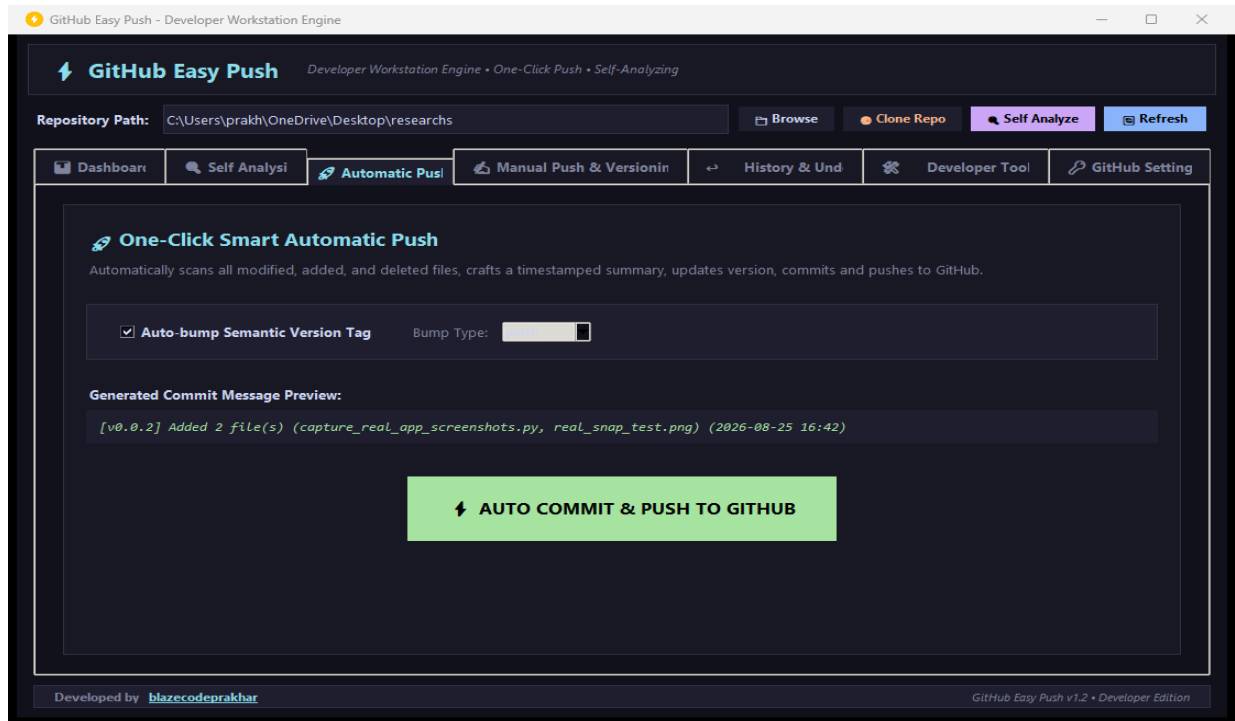
Module 2: Workspace Self Analysis Engine

Click Self Analyze to inspect parent child commit lineage, audit .gitignore security protection rules for sensitive files (.env, build directories), and monitor commit divergence.



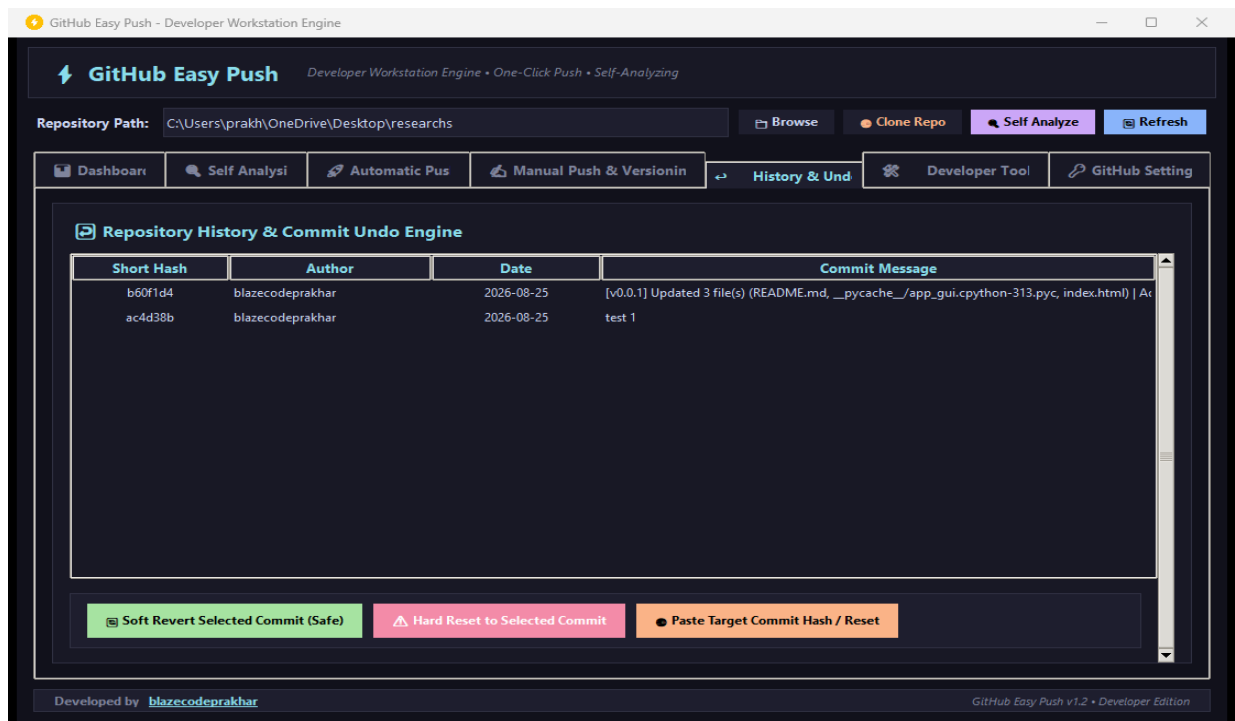
Module 3: One Click Smart Automatic Push

Select your automatic version bump preference (Patch +0.0.1, Minor +0.1.0, Major +1.0.0). Click AUTO COMMIT AND PUSH TO GITHUB to stage all changes, format update notes, and push instantly.



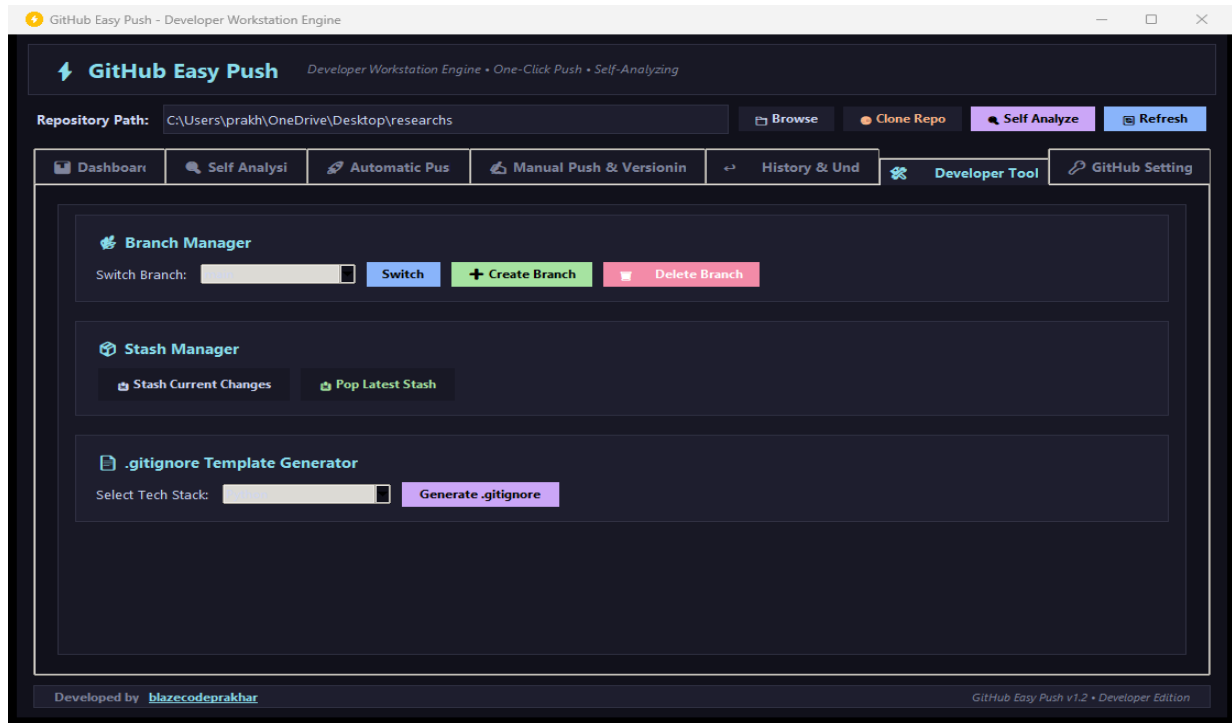
Module 4: Commit History Timeline & Undo Engine

Inspect recent commit history. Use Soft Revert to create an inverse commit while keeping local edits, or Hard Reset to restore repository state back to any commit hash.



Module 5: Developer Power Tools

Manage branches, stash uncommitted working edits, and generate ready to use .gitignore templates for Python, Node, C++, Java, and Go.



3. Compiling Standalone Executables

To compile a new standalone executable file from Python source code, run:

```
python build_exe.py
```