



# An AI-Powered GitHub Repo Analyzer Web App

ALL THE CODE ARE CONTAIN IN A SINGLE PYTHON FILE (TO AVOID ANY MISCONCEPTION)

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# PROBLEM STATEMENT

In the rapidly evolving landscape of technology, staying informed about the most significant trends is crucial for developers and consumers alike. However, the abundance of information and the dynamic nature of technological advancements make it challenging to accurately identify and track the most impactful trends.

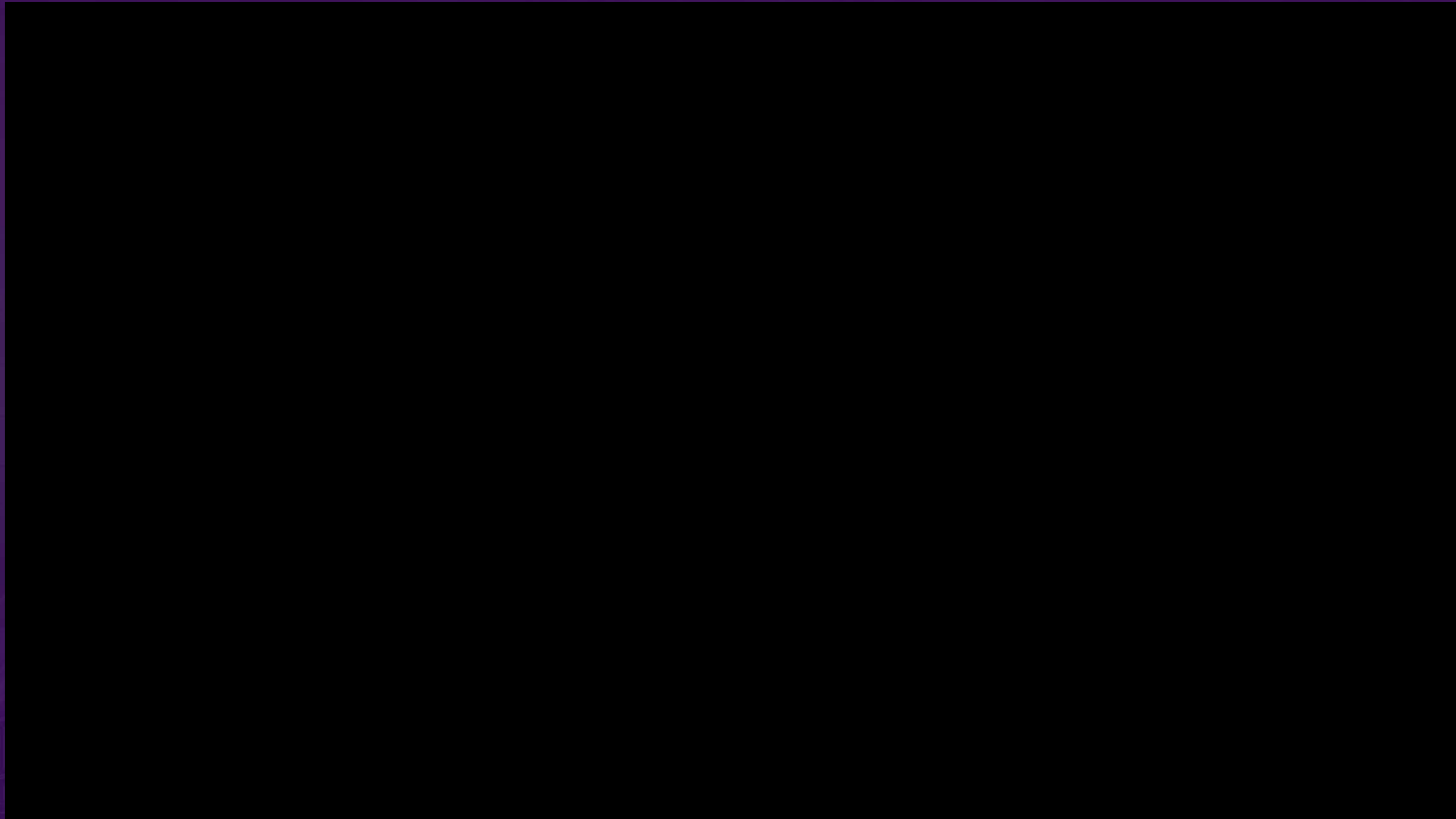


# OUR SOLUTION

By leveraging web scraping, data analysis techniques, and natural language processing, your code can efficiently extract relevant information from a large number of repositories and generate informative summaries. This enables developers and consumers to stay up-to-date with the latest trends in the software development landscape without the need for manual analysis.

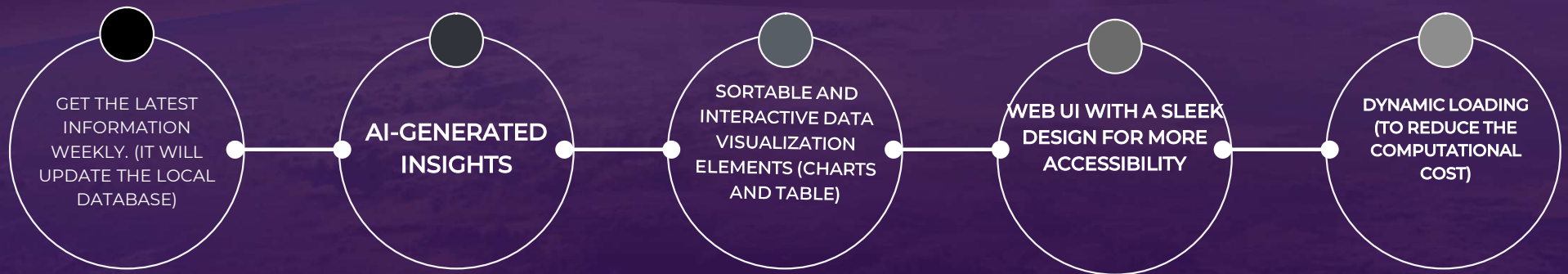


# HOW DOES IT WORK?



# NOTABLE SIDE FEATURES

The program has a few notable main side features aside from its main features:



*Each product is designed to enhance business performance, security, and agility.*

The web app color scheme is inspired heavily by leetcode color scheme

# Trending GitHub Repositories

## Repository Table

Rank	Repository Name	Language	Stars	URL	Created	Updated	Watchers
1	facebook/react	TypeScript	4876	<a href="https://github.com/facebook/react">https://github.com/facebook/react</a>	2015-10-21	2024-10-21	743
2	vercel/next.js	Python	3517	<a href="https://github.com/vercel/next.js">https://github.com/vercel/next.js</a>	2016-10-21	2024-10-21	402
3	FormidableLabs/openai-deno	JavaScript	2780	<a href="https://github.com/FormidableLabs/openai-deno">https://github.com/FormidableLabs/openai-deno</a>	2024-10-15	2024-10-15	121
4	OpenAI/CLIP	Python	2748	<a href="https://github.com/OpenAI/CLIP">https://github.com/OpenAI/CLIP</a>	2024-10-15	2024-10-15	230
5	datacamp/llm-engine	Python	2357	<a href="https://github.com/datacamp/llm-engine">https://github.com/datacamp/llm-engine</a>	2024-09-24	2024-09-24	383
6	openai/whisper	TypeScript	2481	<a href="https://github.com/openai/whisper">https://github.com/openai/whisper</a>	2024-10-15	2024-10-15	233
7	openai/CLIP	Python	1987	<a href="https://github.com/openai/CLIP">https://github.com/openai/CLIP</a>	2024-10-15	2024-10-15	81
8	openai/whisper	JavaScript	1881	<a href="https://github.com/openai/whisper">https://github.com/openai/whisper</a>	2024-10-15	2024-10-15	129
9	openai/whisper	Python	1815	<a href="https://github.com/openai/whisper">https://github.com/openai/whisper</a>	2024-10-15	2024-10-15	145
10	openai/whisper	Python	1523	<a href="https://github.com/openai/whisper">https://github.com/openai/whisper</a>	2024-10-15	2024-10-15	54

Showing 1 to 10 of 123 entries

## Repository Charts

Programming Language Repository Stars Analysis

Individual Repository Stars by Language

Average Stars by Language

How can we leverage the most detailed information about each repository?

### AI-Generated Insights

Based on the provided data, here are some prominent trends:

- Python Dominance:** The prevalence of Python in the top 10 most starred repositories, particularly in the last 30 days, suggests an increased interest in handling large-scale data and complex machine learning models.
- JavaScript and TypeScript Growth:** The presence of JavaScript and TypeScript in the top 10 repositories, especially in the last 30 days, indicates a strong focus on web development and user interface (UI) improvements.
- Open Source Ecosystem:** The consistent presence of open-source projects in the top 10 repositories highlights the importance of open-source software and collaboration in the tech world.
- AI Integration and Innovation:** The inclusion of AI-related projects, such as the OpenAI Whisper and CLIP models, suggests a growing emphasis on artificial intelligence and machine learning applications.
- Cloud Native and Serverless:** The presence of projects related to cloud native architecture and serverless computing, such as the OpenAI Whisper and CLIP models, indicates a shift towards scalable and distributed systems.
- Quality and Best Practices:** The "Stargazer" metric, which measures the number of stars a repository receives, is a key indicator of the quality and popularity of a project, suggesting a focus on high-quality code and best practices.

It's important to note that the incomplete or truncated paragraphs in the data hint at a more detailed analysis.



# TECH STACK

## Front end Libraries

- flask
- pandas
- plotly
- google
- markdown

## Back end Libraries

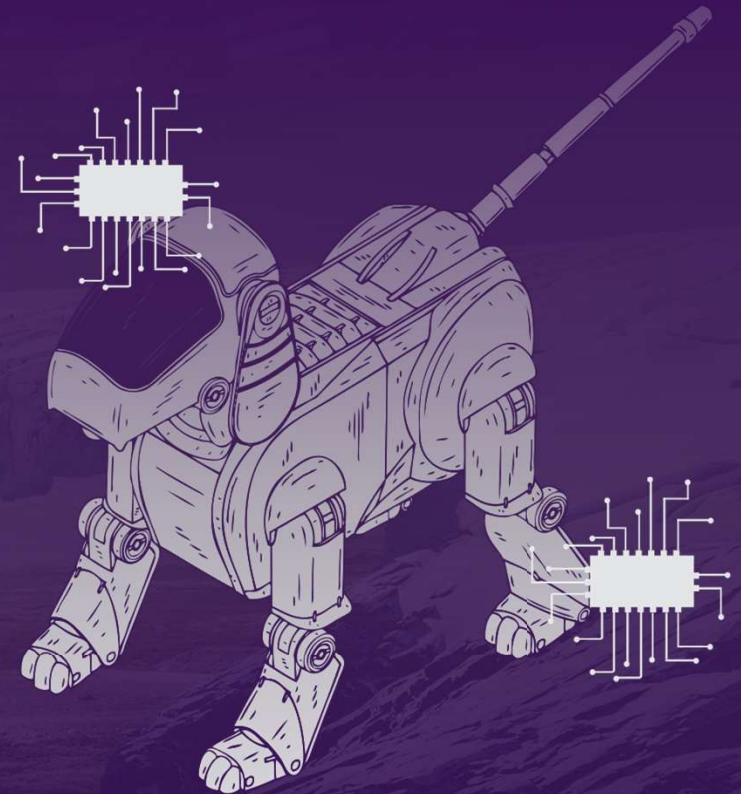
- requests
- numpy
- json
- beautiful soup
- webbrowser
- threading
- contextlib
- time
- sys
- colorama
- datetime

## Misc Library

- Manim (For making the Animation in slide 4)

## Languages

- Python (Main)
- HTML (in flask rendering script)
- CSS (in flask rendering script)
- Javascript (in flask rendering script)



Github link: <https://github.com/FabioCanavarro/GithubWebScraperAnalysis>

**THANK YOU!**  
**FOR TUNING INTO THIS**  
**PRESENTATION.**

