

Hello, i am

Afrah

Mohammed

202257660 F04

Advanced Personal Portfolio Website

Assignment 4 – Web Application Development

KFUPM | December 2025

Live Demo: <https://afrah-f.github.io/assignment4/>

Goal

Build a fully functional, professional personal portfolio from scratch using only:

→ HTML • CSS • JavaScript

(No frameworks, no external libraries)

Result

*A production-ready, responsive, and visually stunning portfolio that I'm proud to showcase to
recruiters.*

What Makes This Project Special

- *Animated Hero with typing effect + floating particles*
 - *Custom animated cursor*
 - *Dark / Light mode (saved in localStorage)*
- *Personalized welcome gate (remembers your name)*
 - *Dynamic Projects section (filter • search • sort)*
 - *Expandable “More Details” with custom styling*
 - *Real-time GitHub repositories (GitHub API)*
 - *Fully validated contact form*
 - *100% responsive & accessible*
 - *Optimized performance (clean code)*

Tech Stack

- *HTML (semantic + accessible)*
- *CSS (custom properties, Grid, Flexbox, animations)*
- *Vanilla JavaScript ES6+ (async/await, DOM API)*
 - *GitHub REST API*
- *localStorage for persistence*

Folder Structure

```
assignment-4/
    └── index.html
    └── css/styles.css
        └── js/script.js
    └── assets/images/
        └── docs/ (technical docs + AI report)
```

Challenge

Combining filter + search + sort → Central render() with match() & compare()

GitHub API rate limit

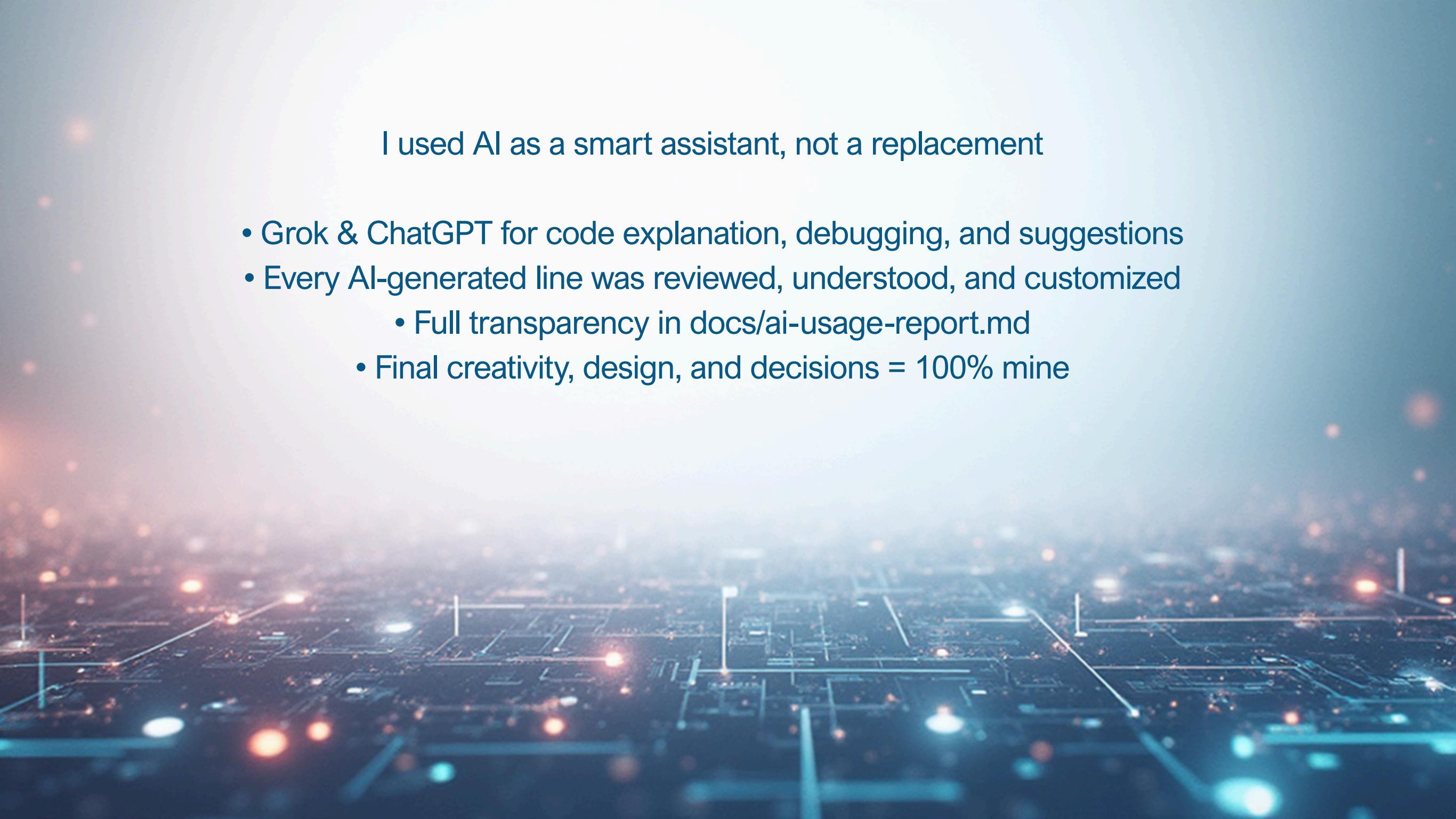
→ CORS proxy + graceful fallback message

Beautiful <details> styling

→ Custom arrow animation + background change

Path errors after restructuring

→ Systematic testing + relative paths fix



I used AI as a smart assistant, not a replacement

- Grok & ChatGPT for code explanation, debugging, and suggestions
- Every AI-generated line was reviewed, understood, and customized
 - Full transparency in docs/ai-usage-report.md
 - Final creativity, design, and decisions = 100% mine

Achievements

- Professional portfolio ready for job applications
 - Mastery of Vanilla JavaScript
- Deep understanding of APIs & state management
 - Confident deployment (GitHub Pages)
 - Strong debugging & problem-solving skills

This project is now truly mine — and I'm incredibly proud of it.



Thank you for your time!