# 📑 Portfolio Project — Documentation

## 🔹 Overview

This is a **personal portfolio website** built with **Bootstrap 5.3.3**, custom CSS, and light JavaScript. It is fully integrated with a **Python + Google Drive + Google Sheets backend** that manages resume, projects, achievements, and certifications. The project is designed to be responsive, modern, and uniquely styled — inspired by common portfolio patterns but implemented originally to maintain ownership.

## 🔹 Current State

* **Frontend**
  + Single-page portfolio with sections:
    - About (profile photo, intro)
    - Skills
    - Experience
    - Projects
    - Education
    - Achievements
    - Resume (view/download)
    - Contact
  + Responsive layout using **Bootstrap grid system**.
  + Custom theme with **CSS variables** supporting light/dark mode.
  + **script.js** fetches data from Google Sheets (CSV export) to update Resume, Projects, and Achievements dynamically.
* **Backend**
  + **Python scripts** upload files to Google Drive and log metadata in Google Sheets.
  + Google Sheets serves as the content source for the frontend.
  + Categories: Resume, Projects, Achievements (to be extended with Certifications).
* **Deployment**
  + Currently runs via VS Code Live Server.
  + Planned for deployment on **GitHub Pages**.

## 🔹 Roadmap

### 1. Frontend Enhancements

* **Navbar**
  + Sticky top navbar.
  + Scrollspy highlighting active section.
  + Responsive collapse with hamburger menu.
* **Projects Section**
  + Bootstrap grid layout.
  + Hover overlays with project title + GitHub/Preview buttons.
  + AOS animations for entry.
* **Achievements Section**
  + Same grid/overlay style as Projects.
  + Minimal descriptions, focus on visuals.
* **Certifications Section (new)**
  + Grid of certificates linking to PDFs.
  + Optional carousel (Swiper) if many items.
* **Animations**
  + Integrate **AOS** (Animate on Scroll) for fade, zoom, and slide effects.
  + Subtle hover transformations (scale, lift).
* **Theme Toggle (Optional)**
  + Client-side dark/light mode toggle.
  + Save preference in localStorage.

### 2. Backend Enhancements

* Extend Python script to support **Certifications folder** in Drive.
* Add **Certifications column** in Google Sheets.
* Update script.js to parse and render Certifications dynamically.

### 3. Deployment

* Host frontend on **GitHub Pages**.
* Store static assets in assets/ (profile photo, resume PDF, certificates).
* Auto-refresh portfolio when Google Sheet updates.

## 🔹 Guiding Principles

* **Originality**: While inspired by FolioOne and Bootstrap patterns, all styles and layouts are customized to ensure originality.
* **Simplicity**: Clear, minimal sections without unnecessary clutter.
* **Maintainability**: Easy to update via Google Sheets + Drive backend.
* **Accessibility**: High-contrast colors, keyboard focus styles, reduced motion preferences.

## 🔹 Next Steps

1. Implement **Project & Achievement grids** with hover overlays.
2. Add **Certifications section** (manual hardcoded first, then dynamic via backend).
3. Polish navbar with Bootstrap scrollspy.
4. Deploy on GitHub Pages.

## 🔹 Project Structure

Frontend/  
 ├─ index.html # Single-page portfolio  
 ├─ assets/  
 │ ├─ css/style.css # Custom theme + overrides  
 │ ├─ js/script.js # Fetch + render data from Google Sheets  
 │ ├─ img/ # Profile photo, project thumbnails  
 │ └─ docs/ # Resume PDF, certificates  
Backend/  
 ├─ portfolio.py # Python script (Drive + Sheets integration)  
 └─ upload\_to\_drive.py

## 🔹 Long-Term Vision

* Move from **Google Sheets as CMS** to a lightweight headless CMS (optional).
* Add **project detail pages** or modals for in-depth descriptions.
* Add **blog/updates section** (optional).
* Register a custom domain (e.g., nikhilnag.me) pointing to GitHub Pages.