**4-Week Python for DV Study Plan**

Each week includes:

* 🧠 Concepts
* 💻 Practical Problems (linked to GitHub)
* ✅ Mini Project

**✅ Week 1: Log & File Automation**

* Topics: os, sys, glob, re, argparse
* Problems:
  + Extract ERROR/FAIL from logs
  + Compare simulation logs
* Mini Project: **Log summary dashboard generator**

**✅ Week 2: Regression & Test Automation**

* Topics: yaml, json, subprocess, multiprocessing
* Problems:
  + YAML-driven regression runner
  + Parallel test execution
* Mini Project: **Full-featured regression manager**

**✅ Week 3: Coverage Analysis & Plotting**

* Topics: json, xml, pandas, matplotlib
* Problems:
  + Merge multiple coverage reports
  + Bar plot of coverage per module
* Mini Project: **Coverage heatmap visualizer**

**✅ Week 4: UVM & VCD Integration**

* Topics: os.walk(), graphviz, pyvcd or waveform API
* Problems:
  + Signal toggle counter
  + UVM testbench visualizer
* Mini Project: **VCD analyzer + report generator**

**🔗 GitHub Setup Plan**

I’ll now:

1. Create a project-style folder template
2. Include README for each week
3. Add starter code + problem markdowns
4. Gradually build solutions for you

Would you like:

* A **private GitHub repo link** to push this to your GitHub?
* A zip file for Week 1 to start immediately?