

AI + Cybersecurity Journey — Phase 1 (Month 1–2)

Daily Checklist

WEEKDAY ROUTINE (Mon–Fri)

- 1) Python Practice (45 minutes)
- 2) Cyber-Data Task (30 minutes)
- 3) Note-Taking (10–15 minutes)

WEEKEND ROUTINE (Sat–Sun)

- 1) Mini Project (1–2 hours)
- 2) GitHub Update (10 minutes)

WEEK 1 — Python Core

DAY 1

- Install Python, VS Code
- Write your first Python script
- Learn variables, input(), print()
- Create GitHub repo + push first commit

DAY 2

- Learn lists, strings
- Solve 5 list/string exercises
- Create notes.md

DAY 3

- Functions (def, return)
- Write 3 utility functions

DAY 4

- File handling (open/read/write)
- Build "read_log()" script

DAY 5

- Regex basics

- Extract URLs/emails/IPs

WEEKEND

- Build a mini Python tool
- Push to GitHub

WEEK 2 — Python for Security Logs

DAY 1

- Parse firewall logs
- Extract source/dest IP, ports

DAY 2

- Regex URL extractor
- Build reusable function

DAY 3

- Hash files (MD5/SHA256)
- Compare hashes

DAY 4

- Parse nmap output
- Extract open ports

DAY 5

- Daily log summary script

WEEKEND

- Build “Security Log Analyzer v1”

WEEK 3 — Data Foundations

DAY 1

- Install Jupyter + pandas
- Load sample CSV

DAY 2

- Clean data (drop, fill, replace)

DAY 3

- Feature extraction basics

DAY 4

- Simple matplotlib visualizations

DAY 5

- Analyze web logs dataset

WEEKEND

- Build: "Web Log Data Report v1"
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WEEK 4 — Integration

DAY 1

- Combine Python + pandas

DAY 2

- Extract features from logs

DAY 3

- Build simple metrics dashboard

DAY 4

- Export CSV summaries

DAY 5

- Review progress

WEEKEND

- Mini project: "Cyber Data Pipeline v1"