**TASK 4: Build a Version-Controlled DevOps Project with Git**

- **Objective:** Manage a DevOps project using Git best practices.

- **Tools:** Git, GitHub

- **Deliverables:** Project repo with proper commits, branching

- **Hints:**
    a. **Initialize repo and push to GitHub.**
    b. **Create dev, feature, and main branches.**
    c. **Use pull requests to merge.**
    d. **Add a proper README.md.**
    e. **Use .gitignore and tags.**
    f. **Document all tasks using markdown.**

- **Outcome:** You'll learn version control workflows.

**Interview Questions:**
1. **What is Git?**
2. **What is the difference between merge and rebase?**
3. **What is a pull request?**
4. **How do you resolve merge conflicts?**
5. **What are Git tags?**
6. **What is Git workflow?**
7. **Explain git stash.**
8. **What is the use of .gitignore?**

📌 **Task Submission Guidelines**

- 🕐 **Time Window:**

You can complete the task anytime between 10:00 AM to 10:00 PM on the given day. Submission link closes at 10 :00 PM

- 🔍 **Self-Research Allowed:**

You are free to explore, Google, or refer to tutorials to understand concepts and complete the task effectively.

- 🛠️ **Debug Yourself:**

Try to resolve all errors by yourself. This helps you learn problem-solving and ensures you don't face the same issues in future tasks.

- 💸 **No Paid Tools:**

If the task involves any paid software/tools, do not purchase anything. Just learn the process or find free alternatives.

- 📁 **GitHub Submission:**

Create a new GitHub repository for each task.

Add everything you used for the task — code, datasets, screenshots (if any), and a short README.md explaining what you did.

📤 **Submit Here:**

After completing the task, paste your GitHub repo link and submit it using the link below:

# SUBMISSION LINK

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