

CSS 426 ML Ops

Lab - 2

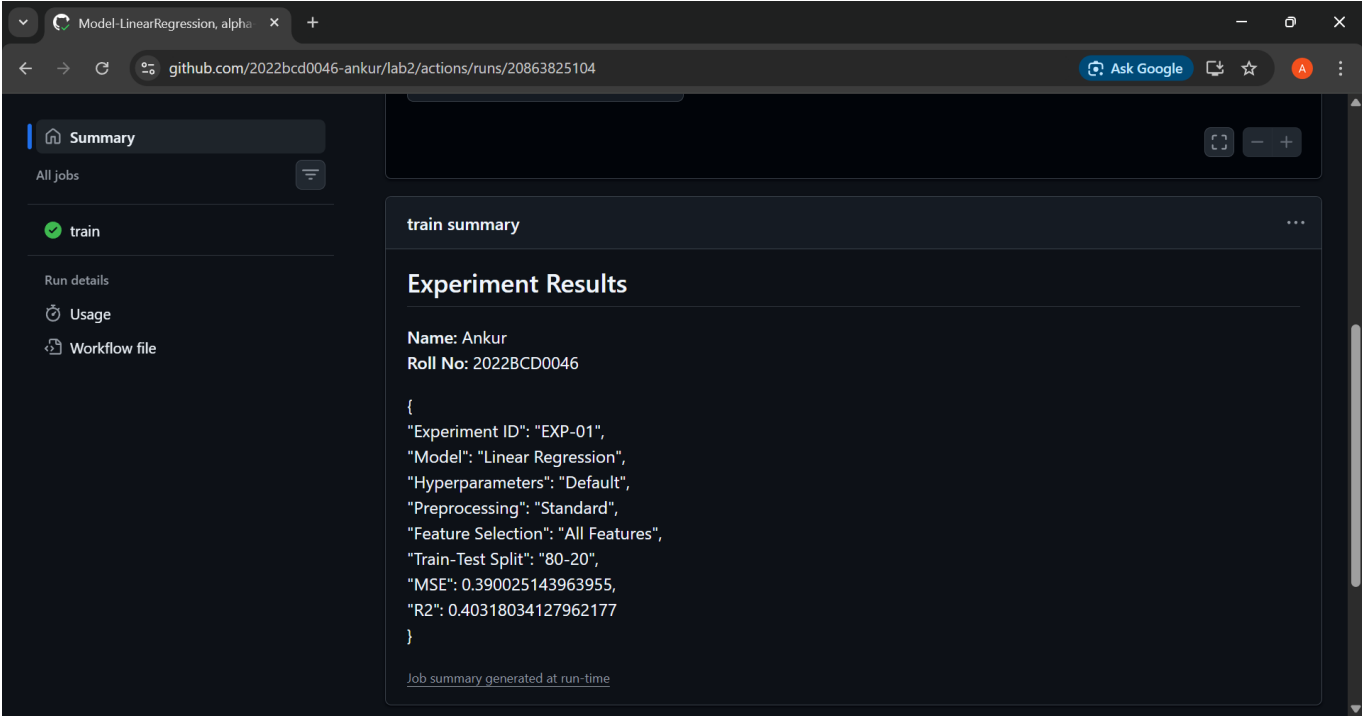
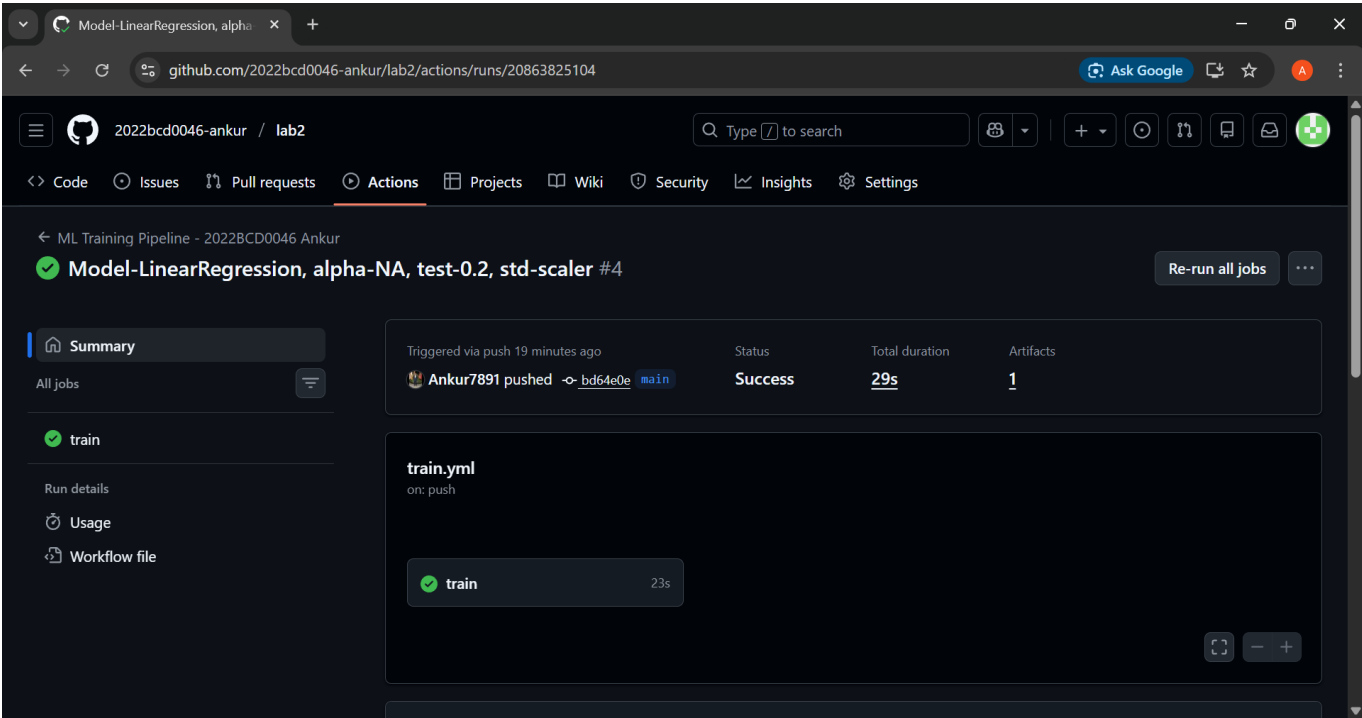
- Name: Ankur Majumdar
 - Roll No. 2022BCD0046
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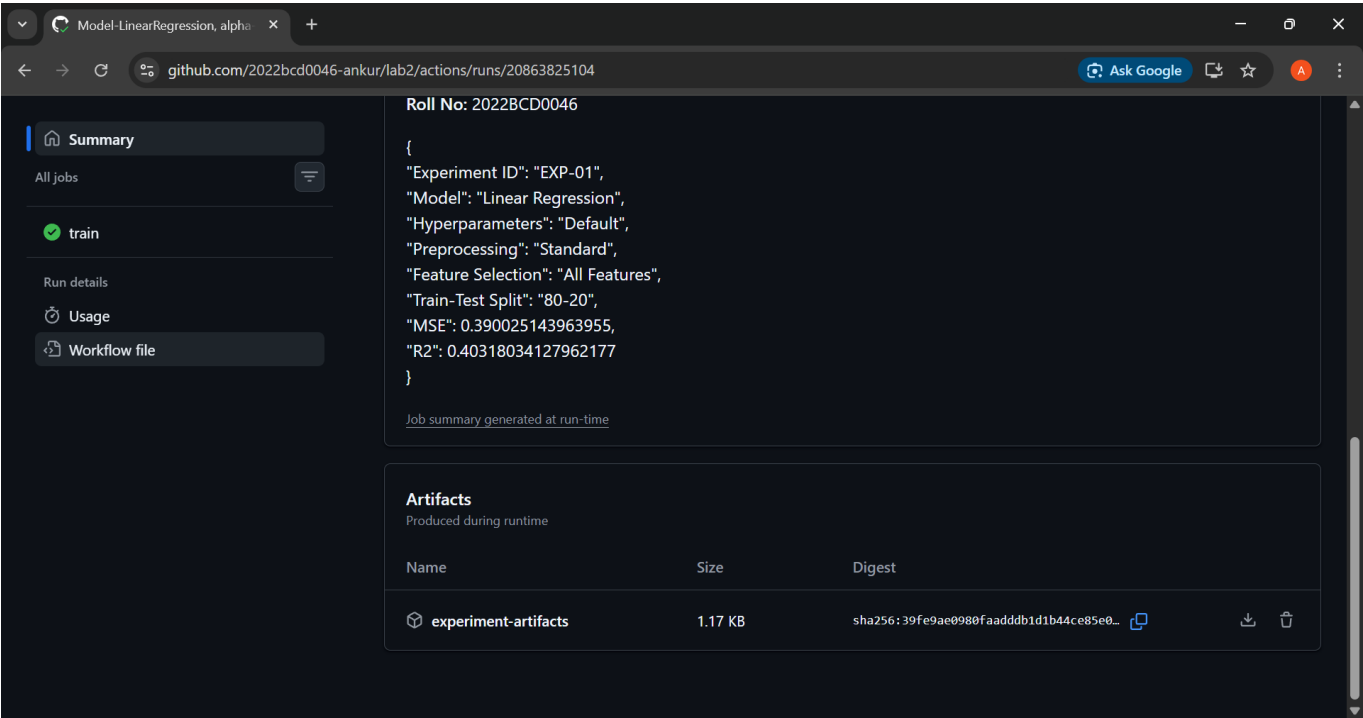
1. GitHub Repository Link

- github.com/2022BCD0046-ankur/lab2

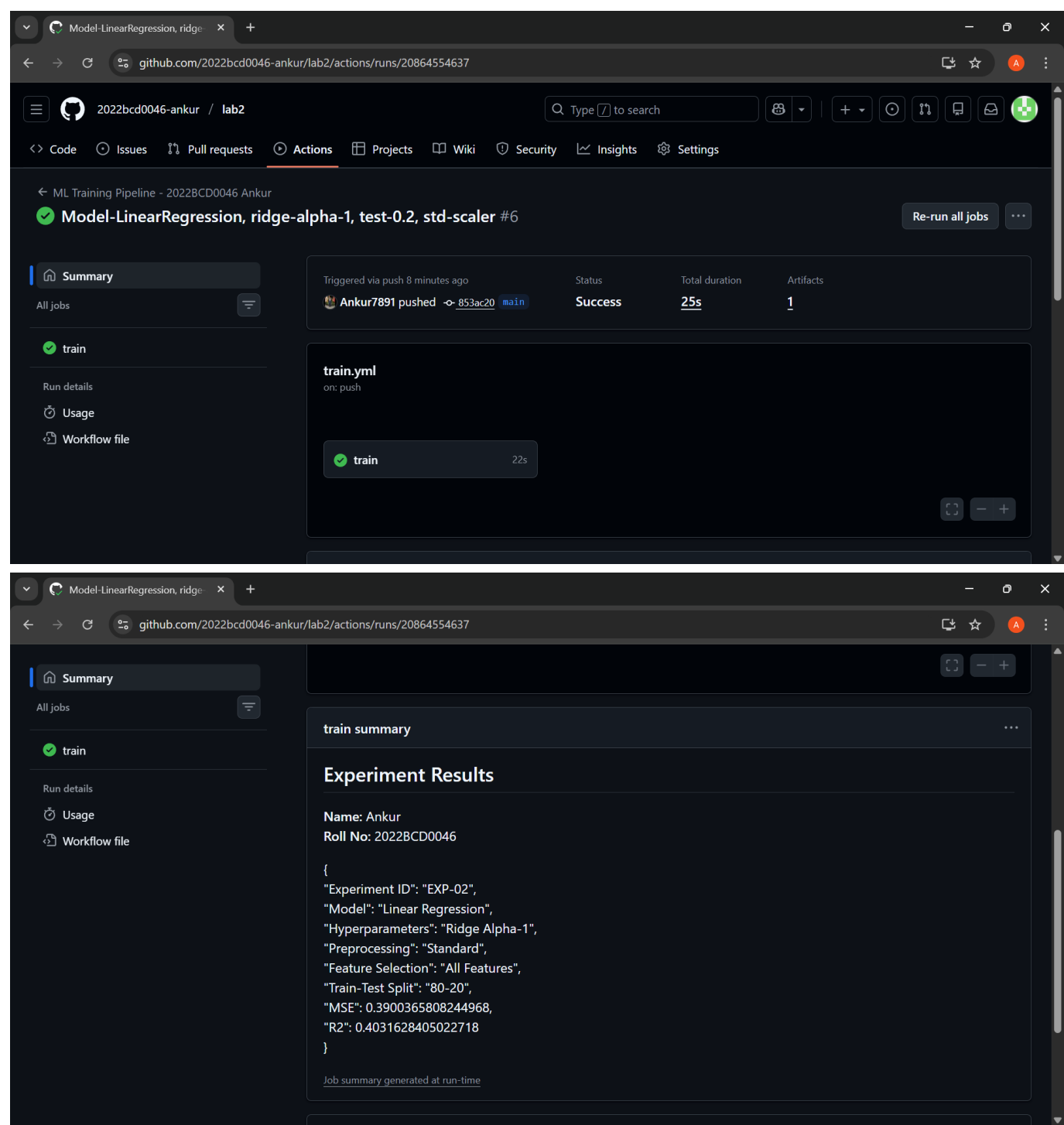
2. Screenshots of Job Summary and Artifacts

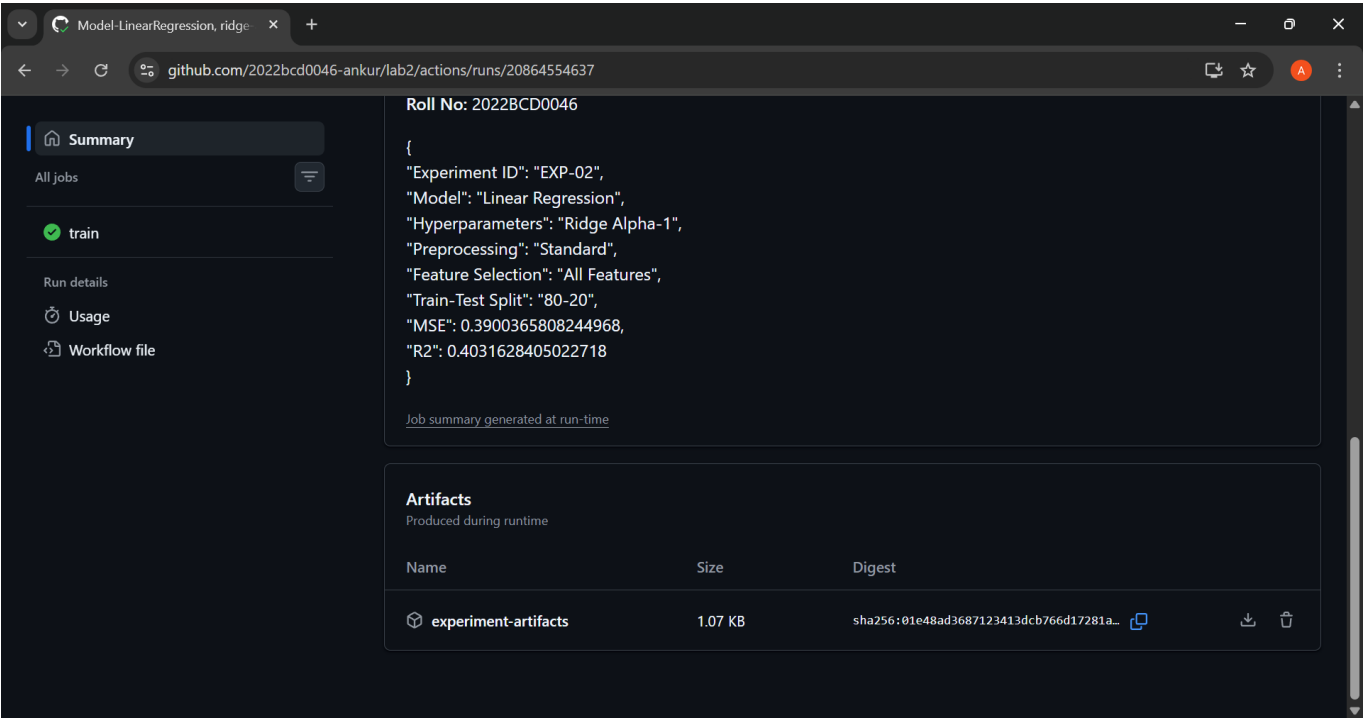
- EXP-01: [Run Link](#)



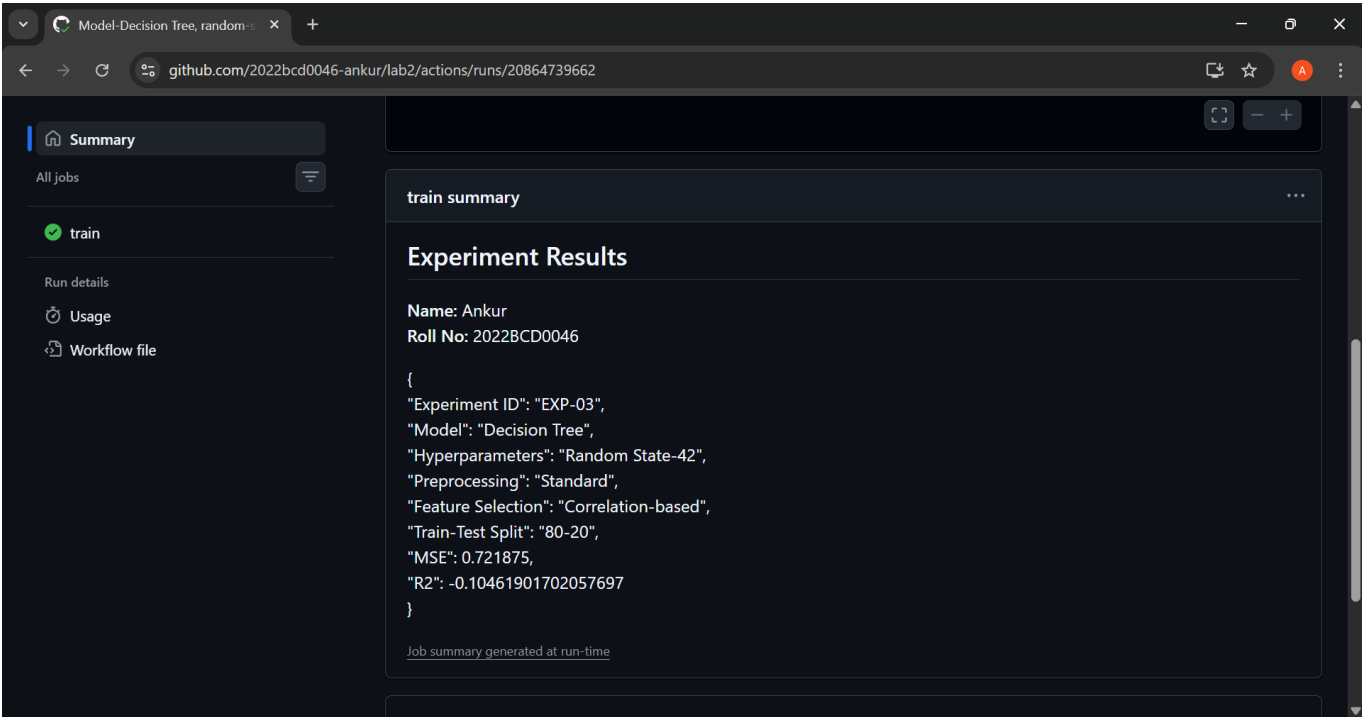
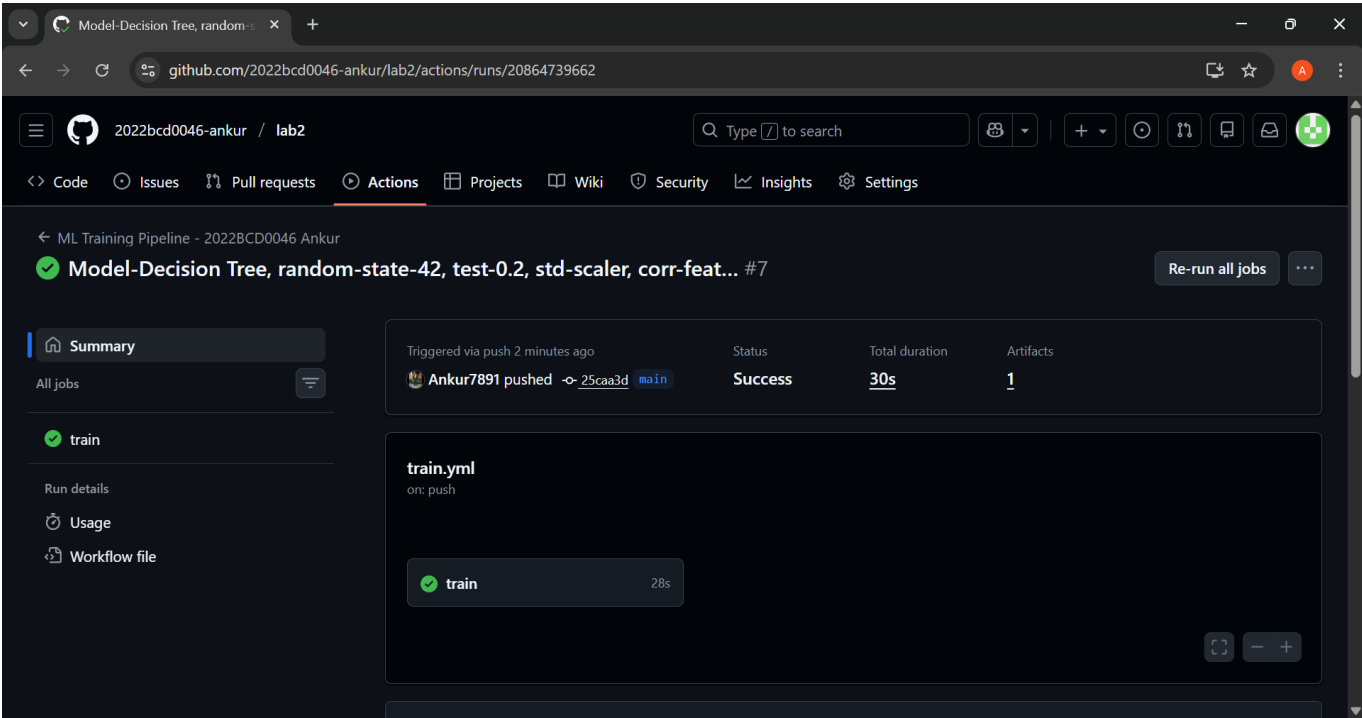


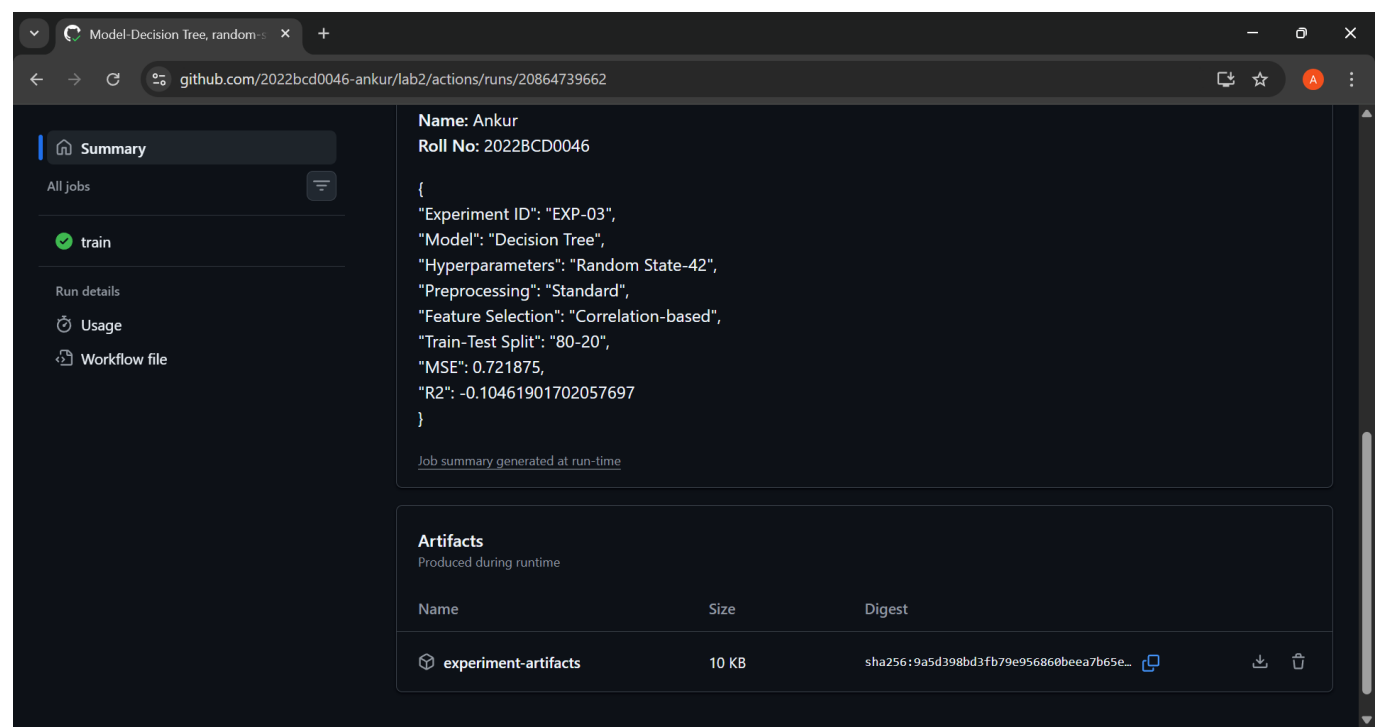
- EXP-02: [Run Link](#)



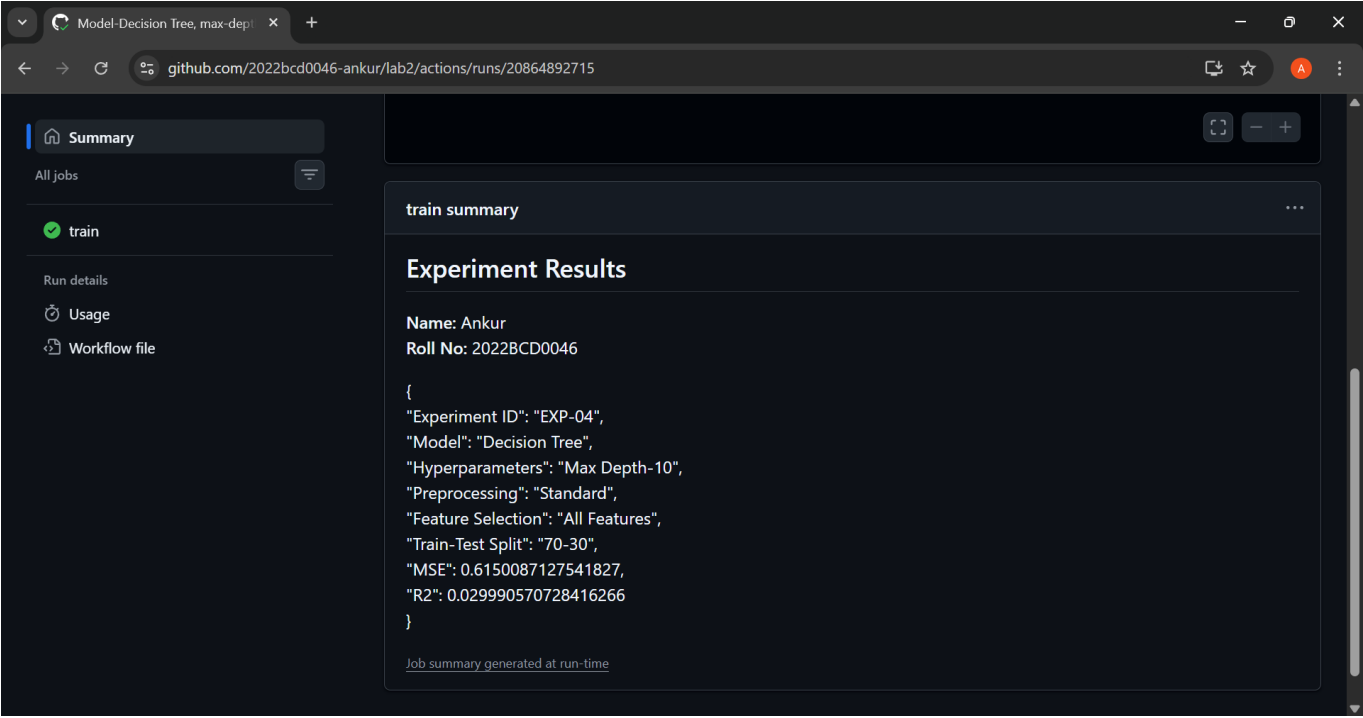
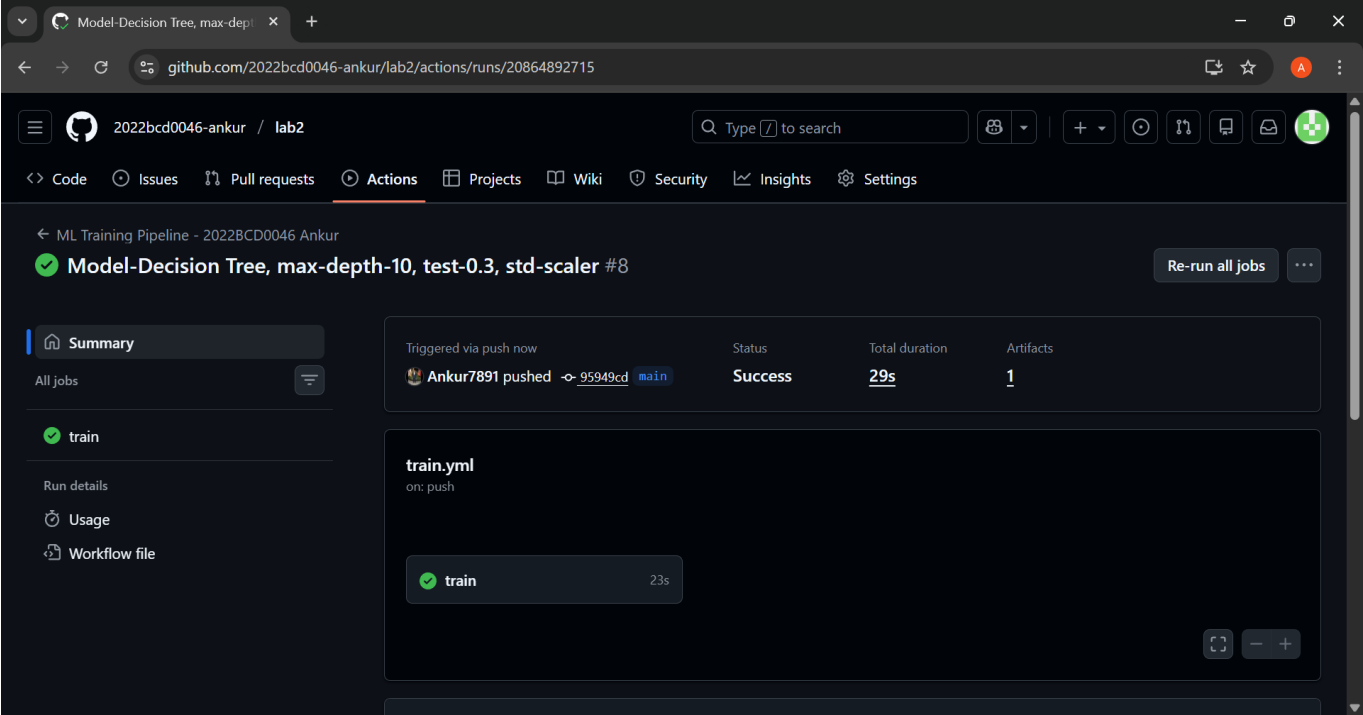


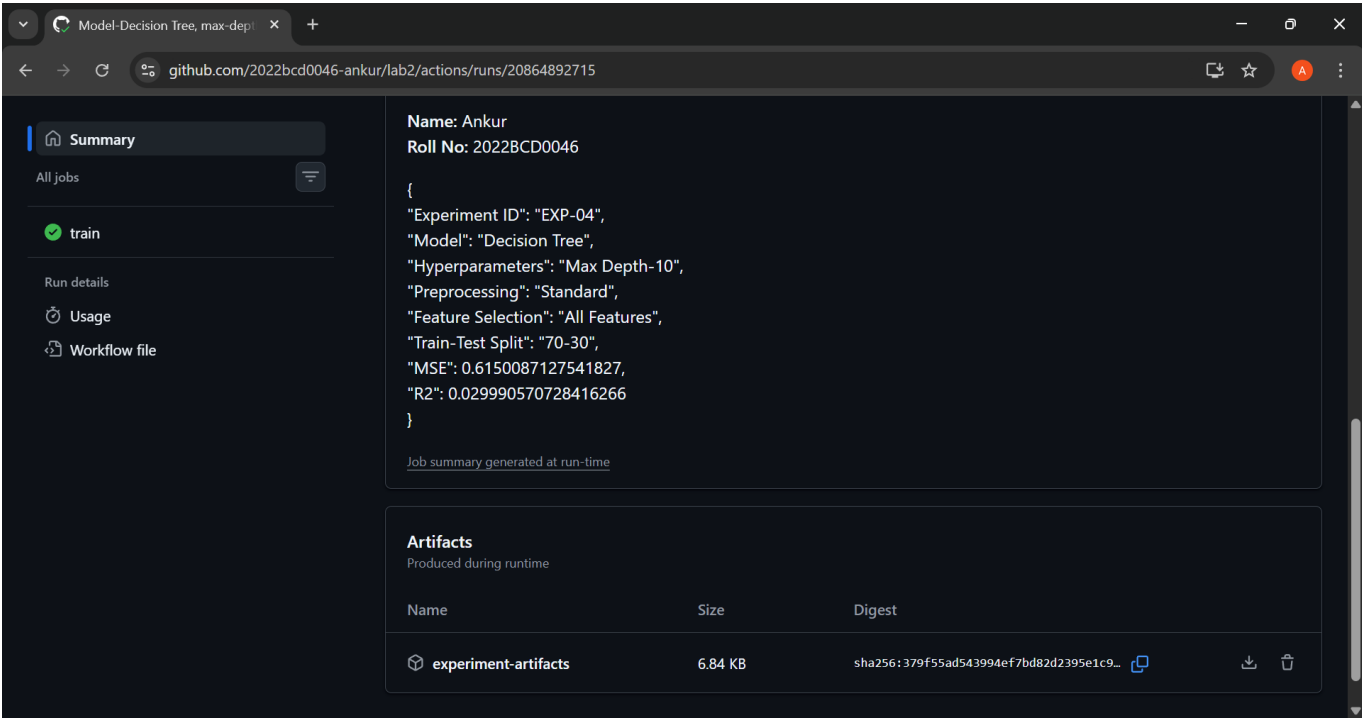
- EXP-03: [Run Link](#)



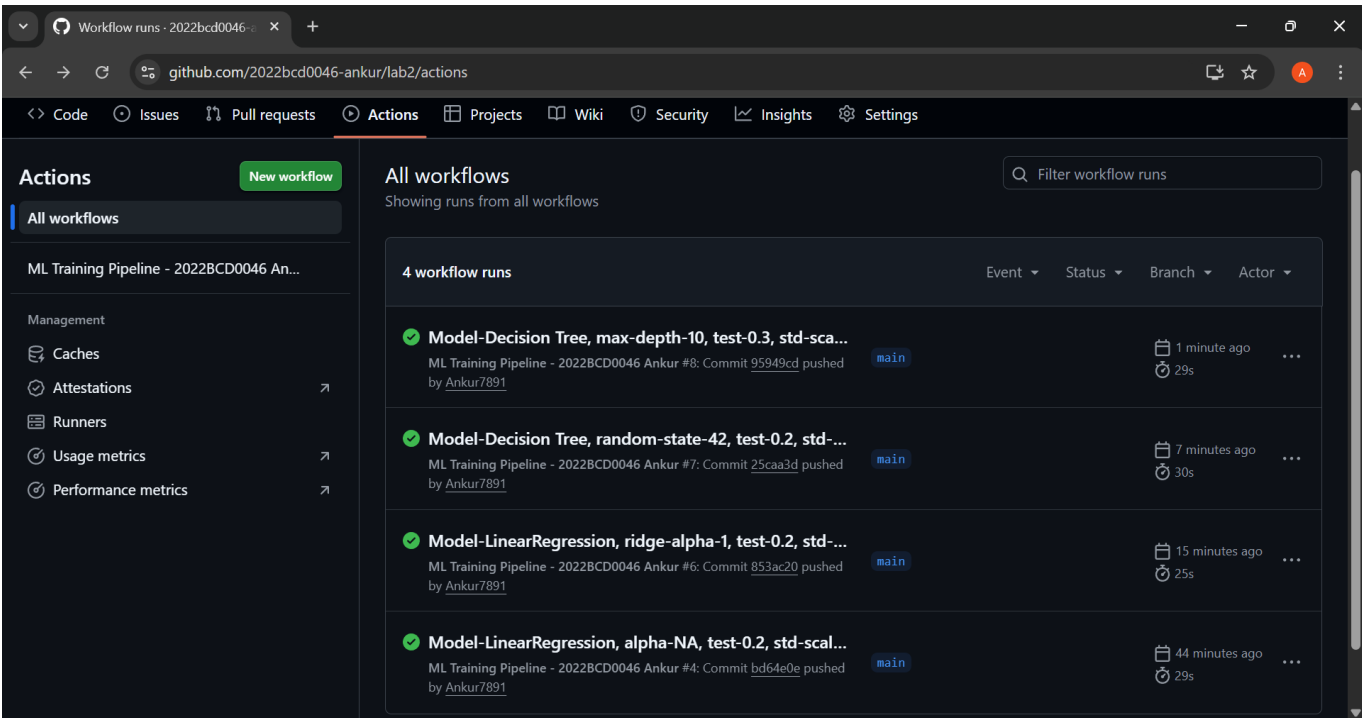


- EXP-04: [Run Link](#)





- Overall Runs...



3. Analysis Questions

- How did GitHub Actions improve reproducibility?
 - GitHub Actions ensured that every experiment ran in a fixed, automated environment with the same dependency versions and execution steps, making results reproducible across runs.
- How easy was it to compare results across runs?
 - Comparison was easy because each run produced metrics in the Job Summary and downloadable JSON artifacts, allowing side-by-side inspection.

3. What role does Git commit history play in experiment tracking?

- Each commit represents a unique experiment configuration, providing a clear and traceable history of changes and their corresponding results.

4. Benefits compared to Lab 1

- Unlike Lab 1, experiments were automated, reproducible and centrally logged, reducing manual effort and error.

5. Limitations

- Hyperparameter changes are still manual.