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Project Journal

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From 10-12-2024 to 05-01-2025

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Time log

Data Selection : 4 hours

Data preprocessing and transformation : 8 hours

Database integration – 8 hours

Analysis and visualization – 4 hours

Algorithm Application – 5 hours

Report and presentation – 2 days

12-12-2024

Finding the data selection through the

https://ourworldindata.org/grapher/covid-vaccine-doses-by-manufacturer

https://ourworldindata.org/grapher/united-states-rates-of-covid-19-deaths-by-vaccination-status

15-12-2024

Started working on Data clean, transform and manipulation on the covid dataset.

25-12-2024

Database – worked on Mongodb

Loading, validating Mongo db, Mask Mongo db, connecting and accessing the database.

28-12-2024

Analysis And visualization

04-01-2025

Algorithm application Applied Random Forest with SMOTE for Imbalanced Data

Started writing the report in IEEE format.

05-01-2025

Presentation

Gained insights from this project :

This project helped me to gain knowledge on programming languages like Python,R. Learnt the usage of jupyter notebook. Explored all the visualisation techniques using Matplotlib, Seaborn, Time Series. Applied Algorithms like linear Regression, Logistic Regression and then Random Forest to get the better results. Got a deep knowledge while working with the algorithms.