

Group Work Distribution (Coordinated in Pairs)

We have performed this Project as a **Team**, but specific contribution was more in **Pair-Wise** as mentioned:

Pair 1: Akriti Gulati & Priya Gupta

Collaboratively handled data preprocessing:

- Cleaned the dataset (`covid_19_data.csv`) and handled missing values.
- Created derived features: `Year`, `Month`, `Active Ratio`, `Fatality Rate`.
- Generated various visualizations of data using Box plot, Scatter plot, Bar graph & Interactive Maps, etc.
- Analyzed spatial correlations between Active cases and Recovered cases.
- Mapped COVID-19 spread using latitude and longitude.

Pair 2: Anindya Biswas & Arpit Kumar Chaudhary

Jointly worked on Geospatial modeling and presentation:

- Created geospatial visualizations (choropleth maps, regional spread).
- Trained models (ARIMA, SARIMA, LSTM, CNN-LSTM)
- Drafted and finalized the project report, README, and contribution statement.
- Designed and delivered the PowerPoint presentation based on all contributions.