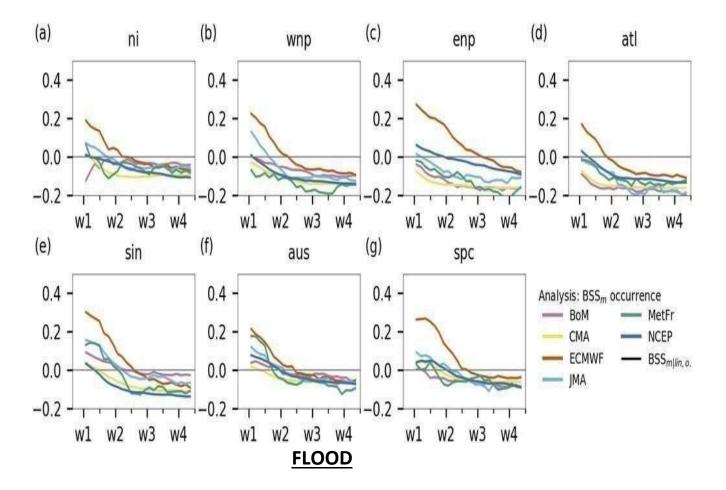
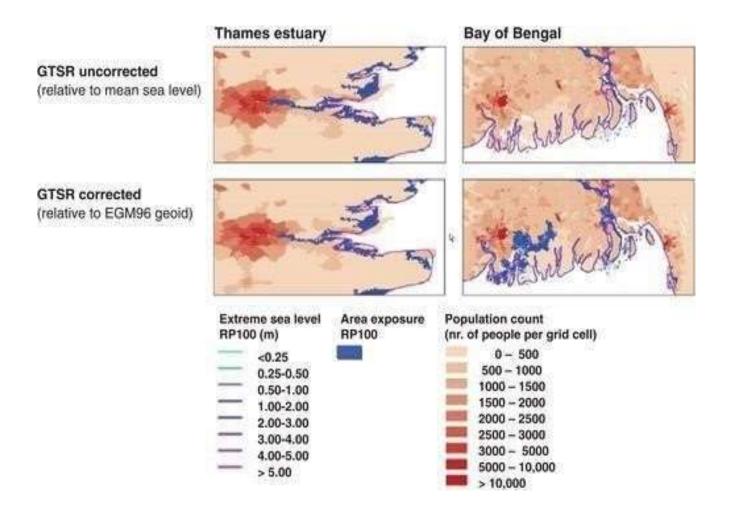
Sprint-1

Simulation Creation

Date	14 November2022
Team ID	PNT2022TMID47240
Project Name	Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
Maximum Marks	20 Marks

CYCLONE



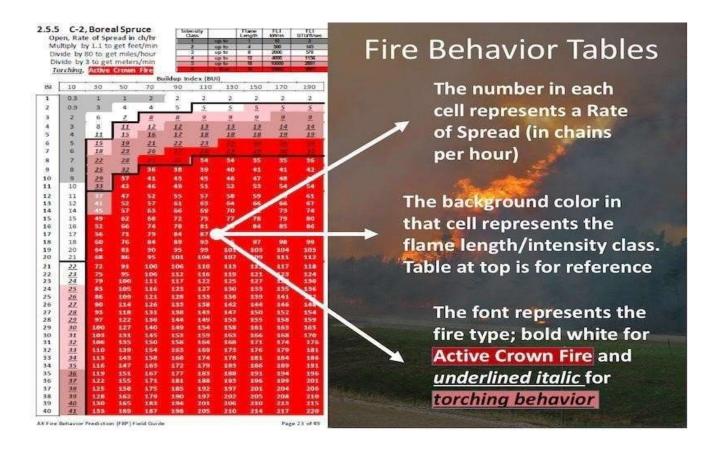


Knowing your community's evacuation route and warning signals, and identifying areas prone to flooding or landslides.

EARTH QUAKE

Model	Rescale Numeric	Train/ Test Split	Data Sampl ing	Data Group ing	Manual Parameter Tuning	Grid Search	Manual Drop Features	Feature Selection Function	Accuracy
Random Forest									
Gorkar (2019)	Yes	Yes	No	No	No	No	No	No	0.721
Das (2019)	Yes	Yes	Yes	No	Simple	Yes	No	No	0.658
Ghimire (2019)	Yes	Yes	Yes	Yes	Simple	Yes	Yes	No	0.715
Mendes (2019)	Yes	Yes	Yes	No	No	No	Yes	Advance	0.63
XGBoost Classifier									
Mendes (2019)	Yes	Yes	Yes	No	No	No	Yes	Advance	0.646
Narayan (2019)	No	No	No	No	No	No	Yes	Simple	0.586
Logistic Regression	0								
Eliseev (2020)	Yes	Yes	No	No	No	No	Yes	No	0.74
Ghimire (2019)	Yes	Yes	Yes	Yes	Simple	Yes	Yes	No	0.47
Light GBM									
Das (2019)	Yes	Yes	Yes	No	Advance	N/A	No	No	0.784
Decision Tree						lil.			
Mendes (2019)	Yes	Yes	Yes	No	No	No	Yes	Advance	0.658

WILDFIRE



Artificial intelligence allows researchers to "clean up data" around air quality and weather patterns and predict possible wildfires in a way that is much faster than before.