

Model Development Phase Template

Date	15 March 2024
Team ID	team-739735
Project Title	Natural Disasters Intensity Analysis And Classification Using AI
Maximum Marks	5 Marks

Model Selection Report

In the model selection process for natural disaster intensity analysis and classification, multiple deep learning architectures will be evaluated, focusing on their accuracy, generalization ability, training efficiency, and suitability for processing satellite or aerial image data. The goal is to identify the most effective model for detecting and classifying disaster types and their severity levels.

Model Selection Report:

Model	Description
CNN	The CNN model is used to analyze satellite or drone images by extracting spatial features through convolutional and pooling layers. It identifies disaster-related patterns such as flood zones, fire regions, or collapsed structures. ReLU activation is used in hidden layers and Softmax in the final layer for multi-class classification..