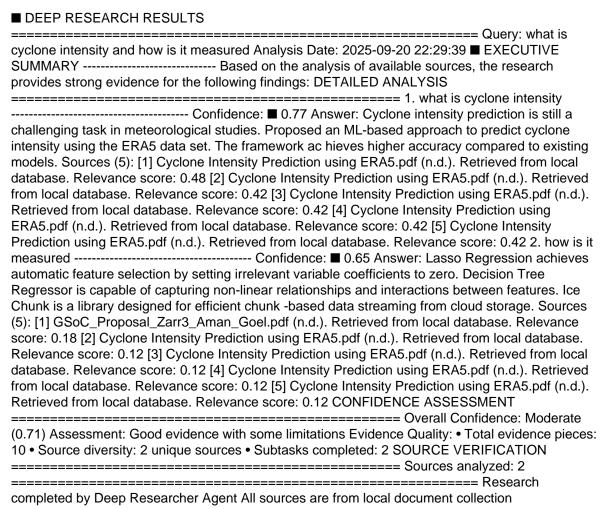
Research Report

Query: what is cyclone intensity and how is it measured

Generated: 2025-09-20 22:29:39

Executive Summary



Detailed Analysis

1. what is cyclone intensity

Answer: Cyclone intensity prediction is still a challenging task in meteorological studies. Proposed an ML-based approach to predict cyclone intensity using the ERA5 data set. The framework ac hieves higher accuracy compared to existing models.

Confidence: 0.77

2. how is it measured

Answer: Lasso Regression achieves automatic feature selection by setting irrelevant variable coefficients to zero. Decision Tree Regressor is capable of capturing non-linear relationships and

interactions between features. Ice Chunk is a library designed for efficient chunk -based data streaming from cloud storage.

Confidence: 0.65