Application of Machine Learning in Radiative Transfer Modeling

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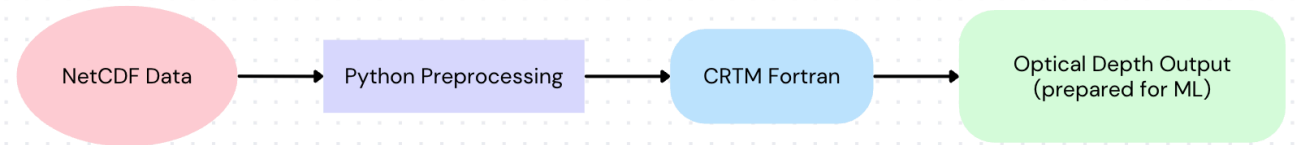Cooperative Institute for Satellite
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Objectives

- Integrated CRTM (Community Radiative Transfer Model) with Python
- Developing a data preprocessing pipeline for processing large-scale atmospheric profiles

Results

- Successfully implemented CRTM-Python Interface using NetCDF
- Identified & resolved critical data format issues
- Verified CRTM optical depth calculation pipeline

Figure(s)