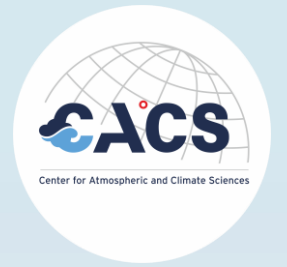




# Center for Atmospheric And Climate Sciences

Environmental Engineering Division  
Department of Civil Engineering, IIT Madras



## About Me

I am a Project Scientist at the Environmental Engineering Division, Department of Civil Engineering, IIT Madras, specializing in Numerical Weather Prediction (NWP) modeling and deep learning for downscaling seasonal forecasts. I hold a Ph.D. in Civil Engineering from IIT Madras. My core areas of expertise include hydrological modeling, NWP modeling, atmospheric sciences, weather forecasting and nowcasting, meteorology, and hydro-climatological studies. With a strong academic background and a deep passion for scientific research, I am dedicated to advancing knowledge in Earth sciences and contributing to innovative solutions

## Research Interest

- Research focuses on atmospheric and climate sciences, with a strong emphasis on improving short-term to long-term weather forecasts for the Indian region.
- Leverages advanced numerical models at both global and regional scales, combined with AI/ML techniques, to enhance predictive accuracy.
- Currently working with WRF-ARW models and deep learning methods for downscaling seasonal forecasts to finer spatial and temporal resolutions.

## Skills

- Programming languages: Python, RStudio, NCL, Linux, MATLAB
- Remote sensing tools : : QGIS, ARC-GIS, Google Earth Engine
- Hydrologic and Hydraulic tools : SWAT, HEC-HMS, HEC-RAS, SWMM, EPA-NET
- Numerical Weather Prediction : Weather Research Forecasting (WRF) model



**Yaswanth  
Pulipati**  
Project Scientist

**Advisor**

**Sachin S. Gunthe  
C. Balaji**

**Contact Me:**

**Mob:** 7036028474/6381260349  
yaswanthpulipati@cacs.iitm.ac.in  
Room No. 302, 3<sup>rd</sup> Floor, NAC-2

