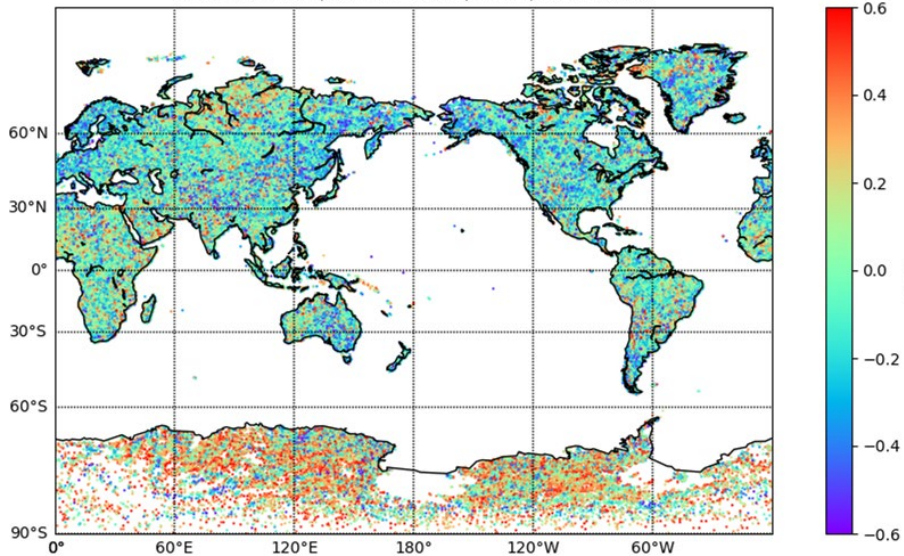


Difference BTs (MODEL - CRTM) CH22, 2022-07-22

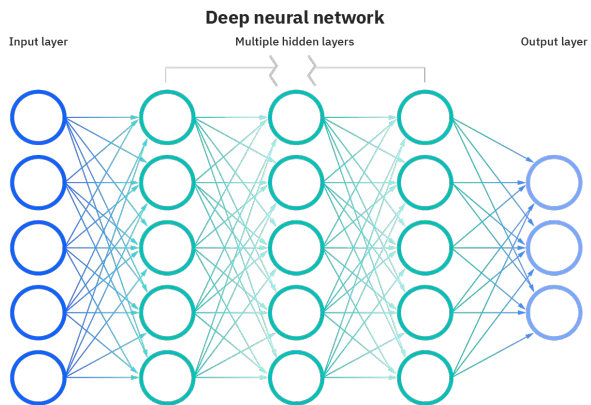


CISESS Internship 2022: ML Development

Rida Khan

Mentor: Dr. Xingming Liang

- Deep neural network to predict 22 ATMS channels (using CRTM simulation as reference) of brightness temperatures using 210 input features
- Model architecture, learning rate, activation function
- Used data preprocessing to remove outliers and unnecessary data
- Examine model results with BTs on global map and results across 22 channels
- 97% accuracy and mean within $[-0.2, 0.2]$ and SD within $[0.2, 0.4]$



Source: IBM

