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]