**Steps to Run Code**

Add a shortcut to this folder in my drive for the data

<https://drive.google.com/drive/folders/1j8qnjxflXDDSgQUwYMRGFRRqt44VRHO2>

The code can be run as “run all” from there. You will need to authorize the code to access your google drive.

import h5py

new\_filename\_2 = '/content/drive/MyDrive/REU 2023 Team 1: Ice Bed Topography Prediction/Research/Chen\_Work/Old Models/Dense\_LSTM\_Vmag\_Trial2.h5'

with h5py.File(new\_filename\_2, 'w') as hf:

hf.create\_dataset("track bed prediction", data=prediction\_on\_1201\_2D)

h5 file save location and name can be changed by modifying the file path string in the code above

**Data and code sources**

Data preprocessing taken as a copy from

<https://colab.research.google.com/drive/1nTcapkrEzOS99_DeKiYTVwveb6qyEUOR>

Models, metrics, and visualizations taken from

Dense + LSTM

<https://colab.research.google.com/drive/1MSVpN0OIAokC2T3HPOFavkbbhuClC19l>

LSTM

<https://colab.research.google.com/drive/1RU_7ZLeKs1T_cQcNATRmBHWcIwYvvbAx>