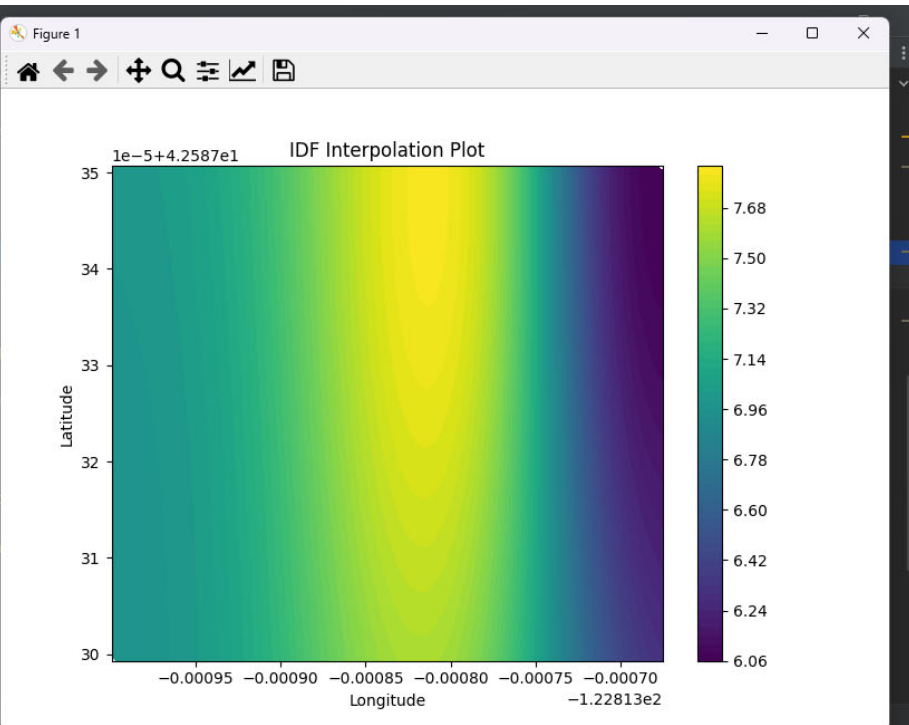


```
File Edit View Navigate Code VCS Help CoryVisualtool0914 - C:\Users\corys\AppData\Roaming\JetBrains\PyCharmEdu2022.2\scratches\IDFandNN.py
Project
  CoryVisualtool0914 C:\Users\corys\Documents\CoryVisualtool0914
    venv library root
    > Lib
    > Scripts
    > share
    .gitignore
    pyenv.cfg
    IDW01.py
    main.py
  External Libraries
  Scratches and Consoles
    Scratches
      3Dheadmapcandidate.py
      3S_SOS_works.py
      BASIC_TRACGOOD.py
      HAWK_VIEWER_ALGOS_01.py
      HEATMAP_CANDIDATE01.py
      IDFandNN.py
      main_interpolate_05.py
      scratch.py
      scratch_1.py
      scratch_2.py
      withAlogosCand.py
  IDFandNN.py
    37 print("File selected:", file_path) # Add this line to verify
    38
    39 # Read the CSV file into a DataFrame and specify column names
    40 df = pd.read_csv(file_path, names=['latitude', 'longitude',
    41
    42 # Extract latitude, longitude, and signal value columns
    43 lat = df['latitude']
    44 long = df['longitude']
    45 sos = df['sos']
    46
    47 # Define the grid for interpolation
    48 grid_x, grid_y = np.meshgrid(np.linspace(min(long), max(long)
    49
    50 # Toggle between interpolation methods (custom_interpolation
    51 use_idf_interpolation = True # Set this to True to use IDF,
    52
    53 if use_idf_interpolation:
    54     grid_z = custom_interpolation_idf(long, lat, sos, grid_x
    55 else:
    56     grid_z = custom_interpolation(long, lat, sos, grid_x fla
    57
    58 grid_z = grid_z.reshape(grid_x.shape)
    59
    60 # Clip values to ensure they are non-negative
    61 grid_z = np.clip(grid_z, 0, None)
    62
    63 if file_path
```



Run: IDFandNN (1) ×

File selected: F:/HAWKLOG2_no.TXT

C:\Users\corys\AppData\Roaming\JetBrains\PyCharmEdu2022.2\scratches\IDFandNN.py:26: RuntimeWarning: invalid value encountered in scalar divide

```
zi[i] = np.sum(z * weights) / np.sum(weights)
```