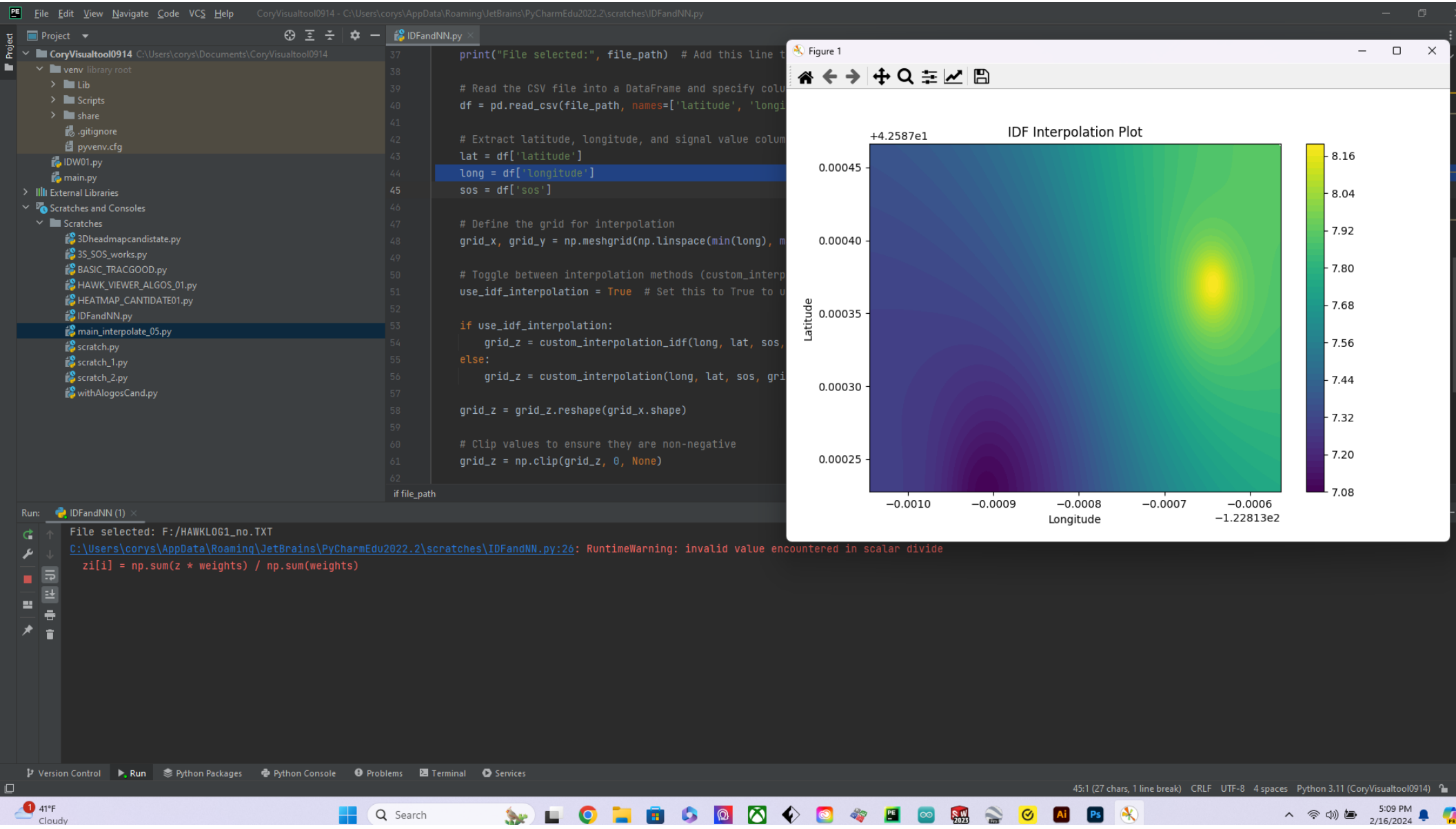
File Edit View Navigate Code VCS Help
CoryVisualtool0914 - C:\Users\corys\AppData\Roaming\JetBrains\PyCharmEdu2022.2\scratches\IDFandNN.py
Project
IDFandNN.py
CoryVisualtool0914 C:\Users\corys\Documents\CoryVisualtool0914
venv library root
Lib
Scripts
share
.gitignore
pyvenv.cfg
IDW01.py
main.py
External Libraries
Scratches and Consoles
Scratches
3Dheadmapcandistate.py
3S_SOS_works.py
BASIC_TRACGOOD.py
HAWK_VIEWER_ALGOS_01.py
HEATMAP_CANTIDATE01.py
IDFandNN.py
main_interpolate_05.py
scratch.py
scratch_1.py
scratch_2.py
withAlogosCand.py
print("File selected:", file_path) # Add this line t
# Read the CSV file into a DataFrame and specify colu
df = pd.read_csv(file_path, names=['latitude', 'longi
# Extract latitude, longitude, and signal value colum
lat = df['latitude']
long = df['longitude']
sos = df['sos']
# Define the grid for interpolation
grid_x, grid_y = np.meshgrid(np.linspace(min(long), m
# Toggle between interpolation methods (custom_interp
use_idf_interpolation = True # Set this to True to u
if use_idf_interpolation:
grid_z = custom_interpolation_idf(long, lat, sos,
else:
grid_z = custom_interpolation(long, lat, sos, gri
grid_z = grid_z.reshape(grid_x.shape)
# Clip values to ensure they are non-negative
grid_z = np.clip(grid_z, 0, None)
if file_path
Figure 1
IDF Interpolation Plot
+4.2587e1
0.00045
0.00040
0.00035
0.00030
0.00025
Latitude
−0.0010
−0.0009
−0.0008
−0.0007
−0.0006
−1.22813e2
Longitude
8.16
8.04
7.92
7.80
7.68
7.56
7.44
7.32
7.20
7.08
Run: IDFandNN (1)
File selected: F:/HAWKLOG1_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)
Version Control
Run
Python Packages
Python Console
Problems
Terminal
Services
45:1 (27 chars, 1 line break) CRLF UTF-8 4 spaces Python 3.11 (CoryVisualtool0914)
41°F
Cloudy
Search
5:09 PM
2/16/2024