```
1 C:\Users\adity\PycharmProjects\
   pythonProject\.venv\Scripts\python.exe
    "C:\Users\adity\PycharmProjects\
   pythonProject\MachineLearningProjects\
   SATELLITE IMAGE DATA ANALYSIS USING
   NUMPY.py"
2 [[[
        0
           17
               57]
               71]
 3
       0
           11
       15
           33 135]
 4
 5
6
     [ 19
           25
               77]
7
     0 4
              33]
8
           14
               17]]
        0
9
10
    [[ 34
           59 125]
11
      25
           47 130]
12
       20
           37 155]
13
14
              44]
        1
            6
     15
            5 34]
        0
               22]]
16
            4
        0
17
    [[ 26 53 170]
18
19
      14
           37 165]
20
       12
           27 178]
21
22
              14]
       0
            4
23
     5 31]
        0
24
               55]]
        1
            4
25
26
```

```
27
     28
         2
                  1]
              0
                  1]
         2
29
              0
                  1]
         2
30
              0
31
                  1]
32
         2
              0
                  1]
         2
              0
33
      1]]
         2
34
              0
35
    [[
         2
                  1]
36
              0
                  1]
37
      2
              0
         2
                  1]
38
              0
39
                  1]
40
         2
              0
      1]
41
         2
              0
         2
                  1]]
42
              0
43
44
    1]
         2
              0
         2
                  1]
45
              0
         2
                  1]
46
              0
47
48
                  1]
         2
              0
                  1]
49
         2
              0
                  1]]]
         2
50
              0
   (3725, 4797, 3)
51
52 Shape of photo_data: (3725, 4797, 3)
   Shape of low_value_filter: (3725, 4797
53
     3)
54
   1
                       ... 3722 3723 3724]
        0
                    2
55
                          3722 3723 3724]
              1
                    2
        0
56 <class 'numpy.ndarray'>
```

File - SA	TELLITE IIVIAGE DI	ATA ANALT	SIS USING NUI
57	[[[255	255	255]
58	[0	0	0]
59	[0	0	135]
60	L	J	
61	[0	0	0]
62	[0	0	0]
63	[0	0	0]]
64	ΓΓ _	_	4057
65	[0	0	125]
66	_		255]
67	[0	0	155]
68	• • •		
69	[0	0	0]
70	[0	0	0]
71	[0	0	0]]
72	_		- -
73	0]]	0	170]
74	[0	0	165]
75	_		255]
76	L 200	200	_001
77	[0	0	0]
78	[0	0	0]
79	<u>-</u>		
	[0	0	0]]
80			
81	• • •		
82	. .	_	. 7
83	[[0	0	0]
84	[0	0	0]
85	[0	0	0]
86	• • •		
87	[0	0	0]

```
88
                   01
              0
          0
                   0]]
 89
          0
              0
 90
 91
     []
                   0]
          0
              0
                   0]
 92
      Γ
          0
              0
                   0]
 93
          0
              0
 94
                   0]
 95
              0
          0
                   0]
96
          0
              0
                   0]]
97
          0
              0
98
                   0]
99
     0
          0
      0]
          0
              0
100
                   0]
101
          0
              0
102
                   0]
103
              0
          0
                   0]
104
          0
              0
                   0]]]
105
          0
              0
106 \text{ photo\_data} = (3725, 4797, 3)
107 X = (3725, 1) \text{ and } Y = (1, 4797)
108 center_row = 1862.5 AND center_col
        2398.5
109 [[-1862.5]
    [-1861.5]
110
111
     [-1860.5]
112
113
     [1859.5]
114 [ 1860.5]
115 [ 1861.5]]
116 [[-2398.5 -2397.5 -2396.5 ... 2395.5
      2396.5 2397.5]]
```

```
117 [[9221708.5 9216912.5 9212118.5 ...
   9207326.5 9212118.5 9216912.51
     [9217984.5 9213188.5 9208394.5 ...
118
   9203602.5 9208394.5 9213188.51
   [9214262.5 9209466.5 9204672.5 ...
119
   9199880.5 9204672.5 9209466.51
120
     [9210542.5 9205746.5 9200952.5
121
   9196160.5 9200952.5 9205746.5]
   [9214262.5 9209466.5 9204672.5 ...
122
   9199880.5 9204672.5 9209466.51
123 [9217984.5 9213188.5 9208394.5 ...
   9203602.5 9208394.5 9213188.511
124 Radius = 3468906.25
125 [ True True True ... True True
   Truel
126 [ True True True ... True True
   Truel
127 [ True True True ... True True
   Truel
128
    . . .
129 | True True True ... True True
   Truel
130 [ True True True ... True True
   Truel
131 [ True True True ... True True
   Truell
132 [[False False False ... False False
   Falsel
133 [False False False ... False False
   Falsel
```

134	[False False]	False	False	• • •	False	False
135	• • •					
136	[False	False	False		False	False
	False]					
137	[False	False	False	• • •	False	False
	False]					
138	[False	False	False	• • •	False	False
	False]]					
139						
140	Process	finish	ned wit	th ex	kit co	de 0
141						