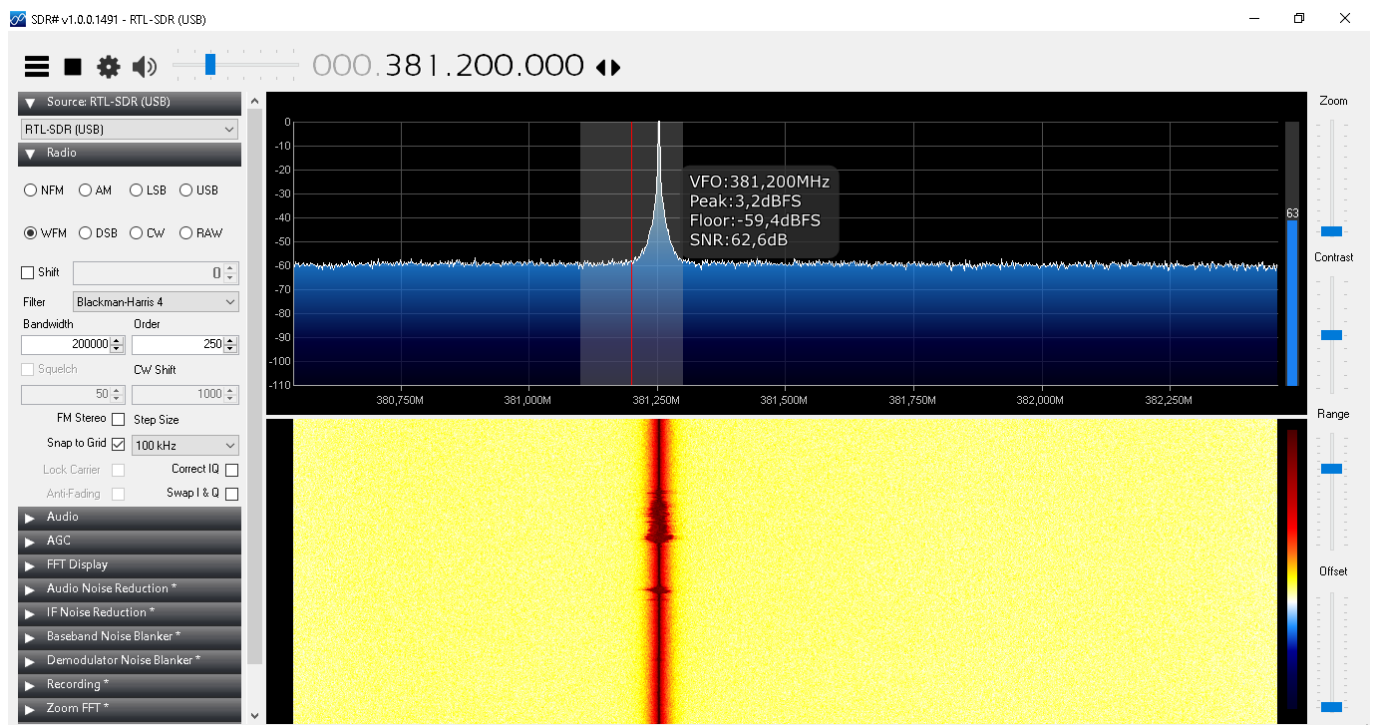


Detectar micrófono espía con CNN-rtlsdr (deep learning signal classification using rtl-sdr dongle)

Señal del micrófono con SDRSharp



Escanear frecuencias y clasificar las señales encontradas con CNN-rtlsdr teniendo conectado el micrófono

```
Símbolo del sistema

C:\Users\juan\Desktop\Radio\cnn-rtlsdr>C:\Users\juan\AppData\Local\Programs\Python\Python36\python.exe predict_scan.py -
-start 380000000 --stop 383000000 --step 50000 --gain 20 --ppm 56 --threshold 0.9955
Found Rafael Micro R820T tuner
2018-01-20 15:48:58.200807: I C:\tf_jenkins\home\workspace\rel-win\M\windows\PY\36\tensorflow\core\platform\cpu_feature_
guard.cc:137] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX AVX2
C:\Users\juan\AppData\Local\Programs\Python\Python36\lib\site-packages\numpy\core\numeric.py:531: ComplexWarning: Castin
g complex values to real discards the imaginary part
  return array(a, dtype, copy=False, order=order)
380.200 MHz - wfm 100.00%
380.250 MHz - wfm 100.00%
381.200 MHz - wfm 100.00%
381.250 MHz - wfm 100.00%
381.300 MHz - wfm 100.00%
381.450 MHz - wfm 99.99%
382.200 MHz - wfm 99.97%
382.250 MHz - wfm 100.00%
382.300 MHz - wfm 100.00%

C:\Users\juan\Desktop\Radio\cnn-rtlsdr>
C:\Users\juan\Desktop\Radio\cnn-rtlsdr>
```

Escanear frecuencias y clasificar las señales encontradas con
CNN-rtlsdr sin conectar el micrófono

```
Símbolo del sistema

C:\Users\juan\Desktop\Radio\cnn-rtlsdr>C:\Users\juan\AppData\Local\Programs\Python\Python36\python.exe predict_scan.py -
-start 380000000 --stop 383000000 --step 50000 --gain 20 --ppm 56 --threshold 0.9955
Found Rafael Micro R820T tuner
2018-01-20 15:50:15.193347: I C:\tf_jenkins\home\workspace\rel-win\M\windows\PY\36\tensorflow\core\platform\cpu_feature_
guard.cc:137] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX AVX2
C:\Users\juan\AppData\Local\Programs\Python\Python36\lib\site-packages\numpy\core\numeric.py:531: ComplexWarning: Castin
g complex values to real discards the imaginary part
  return array(a, dtype, copy=False, order=order)

C:\Users\juan\Desktop\Radio\cnn-rtlsdr>
C:\Users\juan\Desktop\Radio\cnn-rtlsdr>
C:\Users\juan\Desktop\Radio\cnn-rtlsdr>_
```

Más información sobre Neural Network signal recognition
rtlsdr:

<https://www.jesusninoc.com/2017/12/15/neural-network-signal-recognition-rtlsdr/>