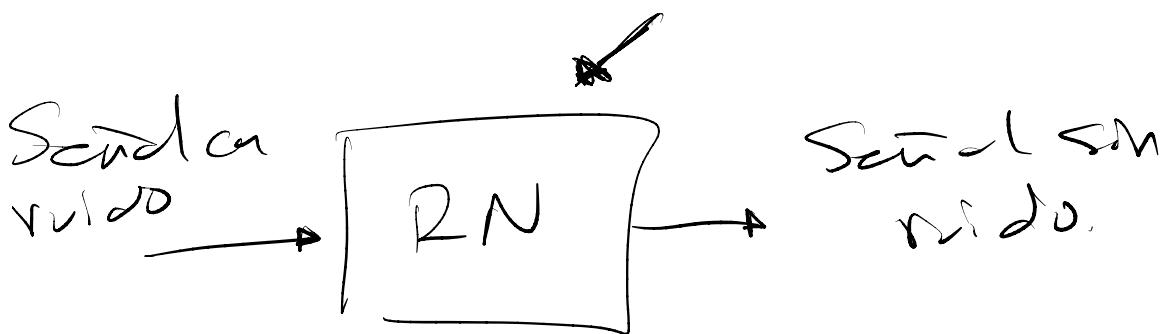


→ 10 palabras.

Por cada palabra registrar 10 veces

escoger \oplus nidos

- fricción
 - plástico
 - lluvia.
- } misma duración.



Generar Datos

→ entradas →

{ combinaciones entre señal sin
ruido (pulso) y el ruido

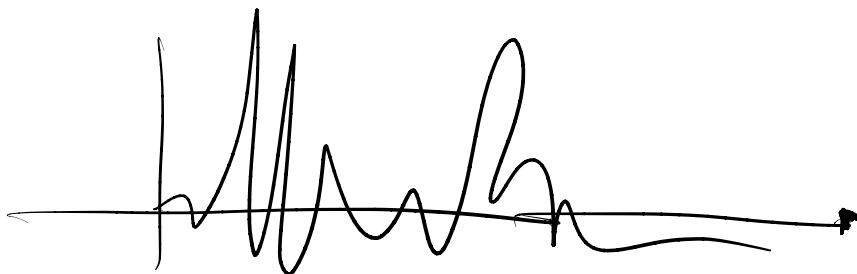
$$2S \rightarrow f_S = 32647$$

↑ ↑

↓ ↓

10 señal tiene 32000 muest.

por segundo
64000 puntos.



P_1 y R_1

$$\boxed{S_{\text{entrada}} = 0.5 \underline{P_1} + 0.5 \underline{R_1}}$$

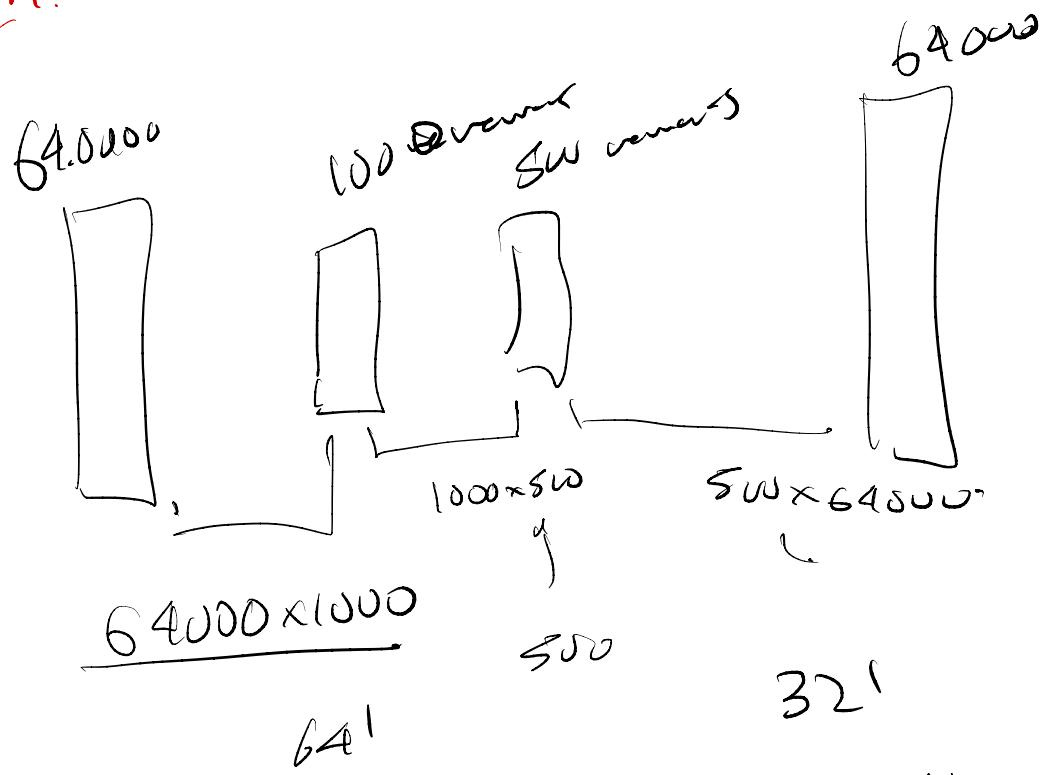
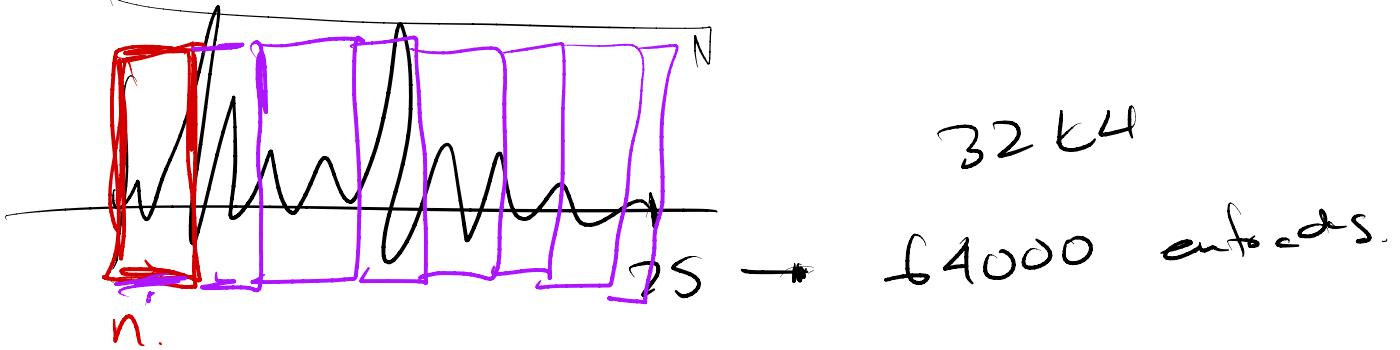
$$S_{\text{entrada-2}} = 0.3 \underline{P_1} + 0.7 \underline{R_1}$$

$$S_{\text{entrada-3}} = 0.7 \underline{P_1} + 0.3 \underline{R_1}$$

misma
salida

→ Salida

pulso normal sin ruido.



≈ 1000 ms. User of frames.

20 ms de la señal \rightarrow 32 kHz.

$$32000 \rightarrow 1s.$$

$$\frac{1}{32} = 0.03125$$

$$n = 32000 \times 0.2$$

$$= \underline{\underline{6400 \text{ puntos}}}$$

read wav. . wav.

$y = \text{read_wav}(' \xrightarrow{\text{number of}} \text{archives}')$

$y \rightarrow$ array de numpy de 6400 pts.

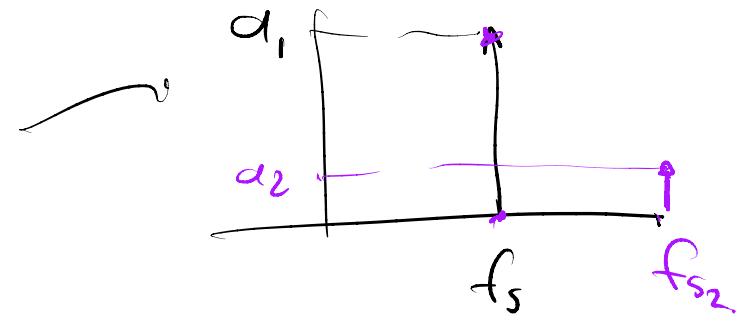
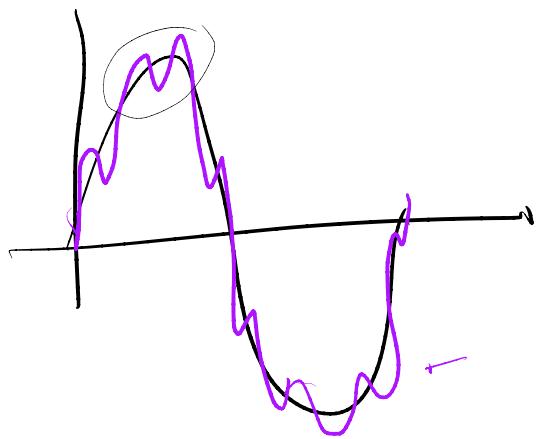
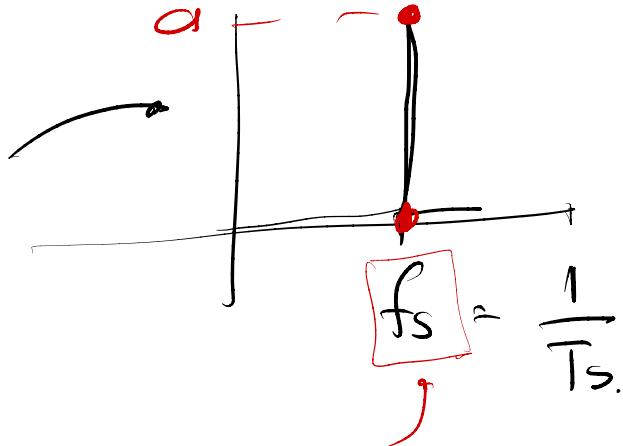
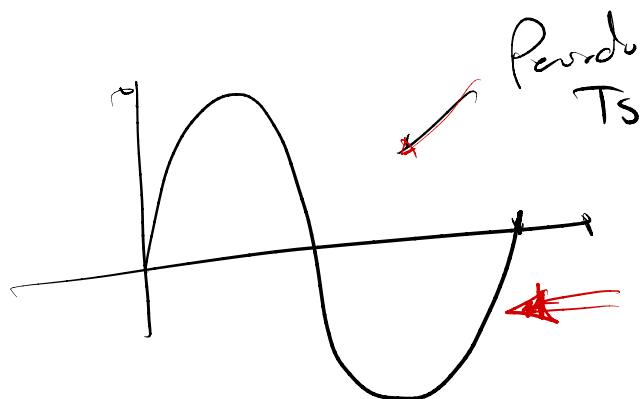
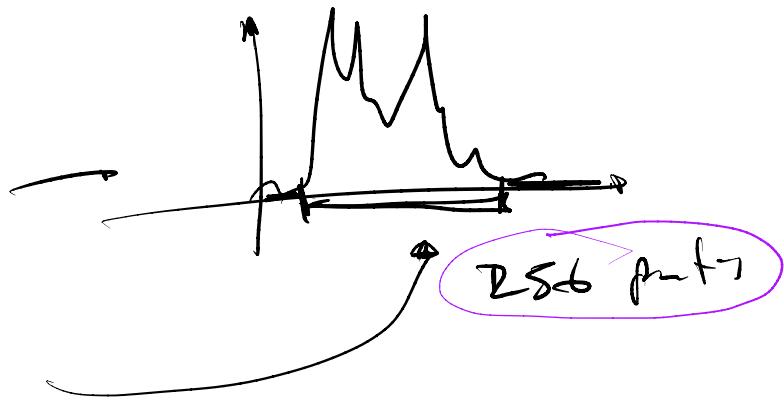
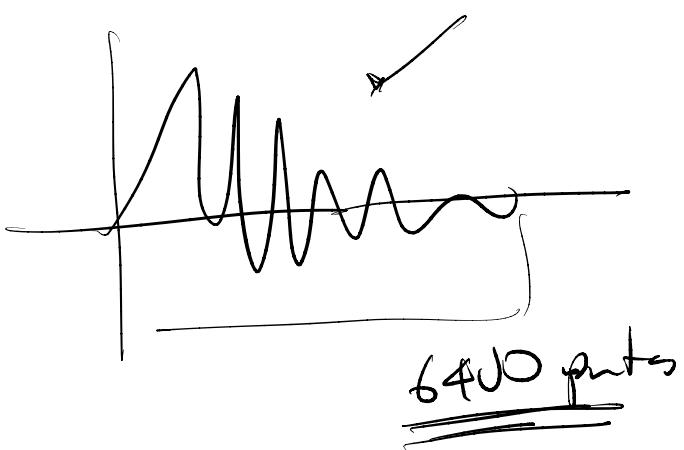
Durante 20 ms.

$y_1 = y[0:6399].j \rightarrow$

$y_2 = y[6400:6400 \times 2 - 1].j$

$$y = \begin{bmatrix} y_1 \\ y_2 \\ \vdots \\ m \times 6400 \text{ chans} \end{bmatrix} \xrightarrow{\text{m} \times 256}$$

fa la devuelta especial de Python!



Spectrogram python
densidad esperada de Pitotra.

Red Neural grid
malla regularizada
odd-layer Dense.