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"import matplotlib.pyplot as plt\n",

"from keras.utils import np\_utils\n",

"from tensorflow.keras.datasets import mnist"

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"Load the data"

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"(X\_train, y\_train), (X\_test, y\_test) = mnist.load\_data()"

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"print(X\_train.shape)\n",

"print(X\_test.shape)"

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"(60000, 28, 28)\n",

"(10000, 28, 28)\n"

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" 0, 0],\n",

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" 0, 0]], dtype=uint8)"

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"5"

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"<Figure size 432x288 with 1 Axes>"

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"image/png": "\n"

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"metadata": {

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}

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"Data Pre-Processing"

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"metadata": {

"id": "LiaAFXj3Wehx"

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"X\_test = X\_test.reshape(10000, 28, 28, 1).astype('float32')"

],

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"Y\_train = np\_utils.to\_categorical(y\_train, number\_of\_classes)\n",

"Y\_test = np\_utils.to\_categorical(y\_test, number\_of\_classes)"

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]

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]

}

]

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