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"colab": {},

"outputId": "791d526c-567b-4970-e40d-d9881f647c67"

},

"source": [

"for e in emoji\_dict.values():\n",

" print(emoji.emojize(e))"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"text": [

"â¤ï¸\n",

"âš¾\n",

"ðŸ˜\n",

"ðŸ˜“\n",

"ðŸ´\n"

],

"name": "stdout"

}

]

},

{

"cell\_type": "markdown",

"metadata": {

"id": "LKkjn4rDPDBn",

"colab\_type": "text"

},

"source": [

"## Read Data"

]

},

{

"cell\_type": "code",

"metadata": {

"id": "rOuEmQ50PDBn",

"colab\_type": "code",

"colab": {}

},

"source": [

"train\_data = pd.read\_csv(\"train\_emoji.csv\", header=None)\n",

"test\_data = pd.read\_csv(\"test\_emoji.csv\", header=None)"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "UWsfKr1wPDBp",

"colab\_type": "code",

"colab": {},

"outputId": "ca1f3ddf-4814-4d7a-caa5-726618bc8b75"

},

"source": [

"train\_data.head()"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/html": [

"<div>\n",

"<style scoped>\n",

" .dataframe tbody tr th:only-of-type {\n",

" vertical-align: middle;\n",

" }\n",

"\n",

" .dataframe tbody tr th {\n",

" vertical-align: top;\n",

" }\n",

"\n",

" .dataframe thead th {\n",

" text-align: right;\n",

" }\n",

"</style>\n",

"<table border=\"1\" class=\"dataframe\">\n",

" <thead>\n",

" <tr style=\"text-align: right;\">\n",

" <th></th>\n",

" <th>0</th>\n",

" <th>1</th>\n",

" <th>2</th>\n",

" <th>3</th>\n",

" </tr>\n",

" </thead>\n",

" <tbody>\n",

" <tr>\n",

" <th>0</th>\n",

" <td>never talk to me again</td>\n",

" <td>3</td>\n",

" <td>NaN</td>\n",

" <td>NaN</td>\n",

" </tr>\n",

" <tr>\n",

" <th>1</th>\n",

" <td>I am proud of your achievements</td>\n",

" <td>2</td>\n",

" <td>NaN</td>\n",

" <td>NaN</td>\n",

" </tr>\n",

" <tr>\n",

" <th>2</th>\n",

" <td>It is the worst day in my life</td>\n",

" <td>3</td>\n",

" <td>NaN</td>\n",

" <td>NaN</td>\n",

" </tr>\n",

" <tr>\n",

" <th>3</th>\n",

" <td>Miss you so much</td>\n",

" <td>0</td>\n",

" <td>NaN</td>\n",

" <td>[0]</td>\n",

" </tr>\n",

" <tr>\n",

" <th>4</th>\n",

" <td>food is life</td>\n",

" <td>4</td>\n",

" <td>NaN</td>\n",

" <td>NaN</td>\n",

" </tr>\n",

" </tbody>\n",

"</table>\n",

"</div>"

],

"text/plain": [

" 0 1 2 3\n",

"0 never talk to me again 3 NaN NaN\n",

"1 I am proud of your achievements 2 NaN NaN\n",

"2 It is the worst day in my life 3 NaN NaN\n",

"3 Miss you so much 0 NaN [0]\n",

"4 food is life 4 NaN NaN"

]

},

"metadata": {

"tags": []

},

"execution\_count": 7

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},

{

"cell\_type": "code",

"metadata": {

"id": "5Sh0UiAmPDBs",

"colab\_type": "code",

"colab": {}

},

"source": [

"train\_data.drop(columns=[2, 3], inplace=True)"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "cmwdSahAPDBu",

"colab\_type": "code",

"colab": {}

},

"source": [

"train\_data.columns = [\"Text\", 'Label']"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "FPVZD0zTPDBw",

"colab\_type": "code",

"colab": {}

},

"source": [

"test\_data.columns = ['Text', 'Label']"

],

"execution\_count": null,

"outputs": []

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{

"cell\_type": "code",

"metadata": {

"id": "BE9gV83IPDBy",

"colab\_type": "code",

"colab": {},

"outputId": "67752693-29d8-4c94-ed1c-afbb97437691"

},

"source": [

"train\_data.head()"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/html": [

"<div>\n",

"<style scoped>\n",

" .dataframe tbody tr th:only-of-type {\n",

" vertical-align: middle;\n",

" }\n",

"\n",

" .dataframe tbody tr th {\n",

" vertical-align: top;\n",

" }\n",

"\n",

" .dataframe thead th {\n",

" text-align: right;\n",

" }\n",

"</style>\n",

"<table border=\"1\" class=\"dataframe\">\n",

" <thead>\n",

" <tr style=\"text-align: right;\">\n",

" <th></th>\n",

" <th>Text</th>\n",

" <th>Label</th>\n",

" </tr>\n",

" </thead>\n",

" <tbody>\n",

" <tr>\n",

" <th>0</th>\n",

" <td>never talk to me again</td>\n",

" <td>3</td>\n",

" </tr>\n",

" <tr>\n",

" <th>1</th>\n",

" <td>I am proud of your achievements</td>\n",

" <td>2</td>\n",

" </tr>\n",

" <tr>\n",

" <th>2</th>\n",

" <td>It is the worst day in my life</td>\n",

" <td>3</td>\n",

" </tr>\n",

" <tr>\n",

" <th>3</th>\n",

" <td>Miss you so much</td>\n",

" <td>0</td>\n",

" </tr>\n",

" <tr>\n",

" <th>4</th>\n",

" <td>food is life</td>\n",

" <td>4</td>\n",

" </tr>\n",

" </tbody>\n",

"</table>\n",

"</div>"

],

"text/plain": [

" Text Label\n",

"0 never talk to me again 3\n",

"1 I am proud of your achievements 2\n",

"2 It is the worst day in my life 3\n",

"3 Miss you so much 0\n",

"4 food is life 4"

]

},

"metadata": {

"tags": []

},

"execution\_count": 11

}

]

},

{

"cell\_type": "code",

"metadata": {

"id": "Aub4UrgvPDB0",

"colab\_type": "code",

"colab": {}

},

"source": [

"x\_train = train\_data['Text'].values\n",

"y\_train = train\_data['Label'].values\n",

"\n",

"x\_test = test\_data['Text'].values\n",

"y\_test = test\_data['Label'].values"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "yH4kTDCHPDB2",

"colab\_type": "code",

"colab": {},

"outputId": "cdd657ad-b6fb-4170-cb70-659b495e6020"

},

"source": [

"y\_train"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"array([3, 2, 3, 0, 4, 0, 3, 2, 3, 1, 3, 3, 1, 3, 2, 3, 2, 3, 1, 2, 3, 0,\n",

" 2, 2, 2, 1, 4, 2, 2, 4, 0, 3, 4, 2, 0, 3, 2, 2, 3, 4, 2, 2, 0, 2,\n",

" 3, 0, 3, 2, 4, 3, 0, 3, 3, 3, 4, 2, 1, 1, 1, 2, 3, 1, 0, 0, 0, 3,\n",

" 4, 4, 2, 2, 1, 2, 0, 3, 2, 2, 0, 0, 3, 1, 2, 1, 2, 2, 4, 3, 3, 2,\n",

" 4, 0, 0, 0, 3, 3, 3, 2, 0, 1, 2, 3, 0, 2, 2, 2, 3, 2, 2, 2, 4, 1,\n",

" 1, 3, 3, 4, 1, 2, 1, 1, 3, 1, 0, 4, 0, 3, 3, 4, 4, 1, 4, 3, 0, 2],\n",

" dtype=int64)"

]

},

"metadata": {

"tags": []

},

"execution\_count": 13

}

]

},

{

"cell\_type": "code",

"metadata": {

"id": "IhvzdwfbPDB4",

"colab\_type": "code",

"colab": {},

"outputId": "13fbdfa6-ce2b-47b0-e317-59623cd7e827"

},

"source": [

"x\_train.shape"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"(132,)"

]

},

"metadata": {

"tags": []

},

"execution\_count": 14

}

]

},

{

"cell\_type": "code",

"metadata": {

"id": "5CVGXQWIPDB6",

"colab\_type": "code",

"colab": {},

"outputId": "77ca5287-8d19-4dc5-be67-d92210927fd7"

},

"source": [

"x\_test.shape"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"(56,)"

]

},

"metadata": {

"tags": []

},

"execution\_count": 15

}

]

},

{

"cell\_type": "code",

"metadata": {

"id": "TyIn6VPNPDB8",

"colab\_type": "code",

"colab": {},

"outputId": "560324aa-ac4e-4c73-ddda-e6a87c7878f3"

},

"source": [

"for i in range(19, 29):\n",

" print(x\_train[i], emoji.emojize(emoji\_dict[str(y\_train[i])]))"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"text": [

"I will celebrate soon ðŸ˜\n",

"So sad you are not coming ðŸ˜“\n",

"She is my dearest love â¤ï¸\n",

"Good job ðŸ˜\n",

"It was funny lol ðŸ˜\n",

"candy is life ðŸ˜\n",

"The chicago cubs won again âš¾\n",

"I am hungry ðŸ´\n",

"I am so excited to see you after so long ðŸ˜\n",

"you did well on you exam ðŸ˜\n"

],

"name": "stdout"

}

]

},

{

"cell\_type": "code",

"metadata": {

"id": "a63OKzwxPDB-",

"colab\_type": "code",

"colab": {}

},

"source": [

""

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "markdown",

"metadata": {

"id": "qVGvQbHNPDCA",

"colab\_type": "text"

},

"source": [

"# Get Embedding"

]

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"cell\_type": "code",

"metadata": {

"id": "12ADwIKuPDCA",

"colab\_type": "code",

"colab": {}

},

"source": [

"f = open(\"glove.6B.50d.txt\", encoding='utf8')"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "670epb6UPDCE",

"colab\_type": "code",

"colab": {}

},

"source": [

"embedding\_index = {}\n",

"\n",

"for line in f:\n",

" values = line.split()\n",

" word = values[0]\n",

" emb = np.array(values[1:], dtype ='float')\n",

" \n",

" embedding\_index[word] = emb"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "woPtfLSwPDCG",

"colab\_type": "code",

"colab": {},

"outputId": "b25d38f0-3f7d-444c-8cc6-f5032c3e5cd0"

},

"source": [

"embedding\_index['america']\n",

"embedding\_index['apple'].shape"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"(50,)"

]

},

"metadata": {

"tags": []

},

"execution\_count": 19

}

]

},

{

"cell\_type": "code",

"metadata": {

"id": "-dmEkI2RPDCI",

"colab\_type": "code",

"colab": {}

},

"source": [

""

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "8-uShMGnPDCK",

"colab\_type": "code",

"colab": {}

},

"source": [

""

],

"execution\_count": null,

"outputs": []

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{

"cell\_type": "code",

"metadata": {

"id": "lNwIfzdvPDCM",

"colab\_type": "code",

"colab": {}

},

"source": [

"def get\_embedding\_output(X):\n",

" maxLen = 10\n",

" embedding\_output = np.zeros((len(X), maxLen, 50))\n",

" \n",

" for ix in range(X.shape[0]):\n",

" X[ix] = X[ix].split()\n",

" \n",

" for ij in range(len(X[ix])):\n",

" embedding\_output[ix][ij] = embedding\_index[X[ix][ij].lower()]\n",

" \n",

" return embedding\_output"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "fRqGAEo2PDCN",

"colab\_type": "code",

"colab": {}

},

"source": [

"train\_embeddings = get\_embedding\_output(x\_train)"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "yrmFs23HPDCP",

"colab\_type": "code",

"colab": {}

},

"source": [

"test\_embeddings = get\_embedding\_output(x\_test)"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "rTIn1L-fPDCS",

"colab\_type": "code",

"colab": {},

"outputId": "96a06761-2d83-40b7-8f46-97ad3692d8ec"

},

"source": [

"train\_embeddings.shape"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"(132, 10, 50)"

]

},

"metadata": {

"tags": []

},

"execution\_count": 23

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"cell\_type": "code",

"metadata": {

"id": "FeYy0fPTPDCU",

"colab\_type": "code",

"colab": {},

"outputId": "f68f509b-1838-4d4f-c8d2-582b3709216f"

},

"source": [

"test\_embeddings.shape"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"(56, 10, 50)"

]

},

"metadata": {

"tags": []

},

"execution\_count": 24

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]

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{

"cell\_type": "code",

"metadata": {

"id": "BDo6Tu0ePDCW",

"colab\_type": "code",

"colab": {}

},

"source": [

"from keras.utils import to\_categorical"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "epBaK8xHPDCY",

"colab\_type": "code",

"colab": {}

},

"source": [

"y\_train = to\_categorical(y\_train)\n",

"y\_test = to\_categorical(y\_test)"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "RKy0oZeYPDCZ",

"colab\_type": "code",

"colab": {},

"outputId": "7f568582-a5a4-4301-83f2-d578fb20eb10"

},

"source": [

"y\_train.shape"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"(132, 5)"

]

},

"metadata": {

"tags": []

},

"execution\_count": 27

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"cell\_type": "code",

"metadata": {

"id": "rrBy\_3VnPDCc",

"colab\_type": "code",

"colab": {},

"outputId": "9c85def6-0fb9-4ee3-8cbd-5c83e0f02aa8"

},

"source": [

"y\_test.shape"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "execute\_result",

"data": {

"text/plain": [

"(56, 5)"

]

},

"metadata": {

"tags": []

},

"execution\_count": 28

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]

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{

"cell\_type": "markdown",

"metadata": {

"id": "C14Q1sD2PDCe",

"colab\_type": "text"

},

"source": [

"## Define LSTM/RNN Model"

]

},

{

"cell\_type": "code",

"metadata": {

"id": "J64JnKi5PDCe",

"colab\_type": "code",

"colab": {}

},

"source": [

"from keras.models import Sequential\n",

"from keras.layers import LSTM, Dense, Dropout, SimpleRNN"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"id": "eL-YcQ7BPDCf",

"colab\_type": "code",

"colab": {},

"outputId": "348648fc-3821-4043-e332-4150af26350d"

},

"source": [

"model = Sequential()\n",

"model.add(LSTM(units=64, input\_shape =(10, 50), return\_sequences= True ))\n",

"model.add(Dropout(0.3))\n",

"model.add(LSTM(units = 32))\n",

"model.add(Dropout(0.3))\n",

"model.add(Dense(units= 10, activation= 'tanh'))\n",

"model.add(Dense(units= 5, activation= 'softmax'))\n",

"model.summary()"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"text": [

"Model: \"sequential\"\n",

"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n",

"Layer (type) Output Shape Param # \n",

"=================================================================\n",

"lstm (LSTM) (None, 10, 64) 29440 \n",

"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n",

"dropout (Dropout) (None, 10, 64) 0 \n",

"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n",

"lstm\_1 (LSTM) (None, 32) 12416 \n",

"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n",

"dropout\_1 (Dropout) (None, 32) 0 \n",

"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n",

"dense (Dense) (None, 10) 330 \n",

"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n",

"dense\_1 (Dense) (None, 5) 55 \n",

"=================================================================\n",

"Total params: 42,241\n",

"Trainable params: 42,241\n",

"Non-trainable params: 0\n",

"\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\n"

],

"name": "stdout"

}

]

},

{

"cell\_type": "code",

"metadata": {

"id": "X3z1Rz8MPDCh",

"colab\_type": "code",

"colab": {}

},

"source": [

"model.compile(optimizer='adam', loss=\"categorical\_crossentropy\", metrics=['accuracy'])"

],

"execution\_count": null,

"outputs": []

},

{

"cell\_type": "code",

"metadata": {

"scrolled": true,

"id": "ly026OHaPDCj",

"colab\_type": "code",

"colab": {},

"outputId": "696193f2-376a-4e60-eaed-30931bdd9d44"

},

"source": [

"# Callbacks\n",

"\n",

"hist = model.fit(train\_embeddings, y\_train, validation\_split=0.1 , shuffle=True, batch\_size=64, epochs=50 )"

],

"execution\_count": null,

"outputs": [

{

"output\_type": "stream",

"text": [

"Epoch 1/50\n",

"2/2 [==============================] - 1s 270ms/step - loss: 1.5944 - accuracy: 0.2203 - val\_loss: 1.6090 - val\_accuracy: 0.2857\n",

"Epoch 2/50\n",

"2/2 [==============================] - 0s 18ms/step - loss: 1.5481 - accuracy: 0.3220 - val\_loss: 1.6141 - val\_accuracy: 0.2857\n",

"Epoch 3/50\n",

"2/2 [==============================] - 0s 18ms/step - loss: 1.5271 - accuracy: 0.3136 - val\_loss: 1.6300 - val\_accuracy: 0.2857\n",

"Epoch 4/50\n",

"2/2 [==============================] - 0s 17ms/step - loss: 1.5029 - accuracy: 0.3814 - val\_loss: 1.6443 - val\_accuracy: 0.2857\n",

"Epoch 5/50\n",

"2/2 [==============================] - 0s 17ms/step - loss: 1.4897 - accuracy: 0.3814 - val\_loss: 1.6514 - val\_accuracy: 0.2857\n",

"Epoch 6/50\n",

"2/2 [==============================] - 0s 17ms/step - loss: 1.4685 - accuracy: 0.3559 - val\_loss: 1.6484 - val\_accuracy: 0.2857\n",

"Epoch 7/50\n",

"2/2 [==============================] - 0s 16ms/step - loss: 1.4537 - accuracy: 0.4576 - val\_loss: 1.6451 - val\_accuracy: 0.2857\n",

"Epoch 8/50\n",

"2/2 [==============================] - 0s 17ms/step - loss: 1.4319 - accuracy: 0.4153 - val\_loss: 1.6370 - val\_accuracy: 0.1429\n",

"Epoch 9/50\n",

"2/2 [==============================] - 0s 19ms/step - loss: 1.4202 - accuracy: 0.3898 - val\_loss: 1.6245 - val\_accuracy: 0.0714\n",

"Epoch 10/50\n",

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"Epoch 14/50\n",

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"Epoch 15/50\n",

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"Epoch 16/50\n",

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"Epoch 45/50\n",

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"Epoch 46/50\n",

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"Epoch 47/50\n",

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"Epoch 49/50\n",

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"Epoch 50/50\n",

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"WARNING:tensorflow:From <ipython-input-34-194ed36a1319>:1: Sequential.predict\_classes (from tensorflow.python.keras.engine.sequential) is deprecated and will be removed after 2021-01-01.\n",

"Instructions for updating:\n",

"Please use instead:\* `np.argmax(model.predict(x), axis=-1)`, if your model does multi-class classification (e.g. if it uses a `softmax` last-layer activation).\* `(model.predict(x) > 0.5).astype(\"int32\")`, if your model does binary classification (e.g. if it uses a `sigmoid` last-layer activation).\n"

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" 2, 2, 3, 2, 3, 1, 3, 2, 3, 2, 3, 4], dtype=int64)"

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" list(['he', 'did', 'not', 'answer']),\n",

" list(['he', 'got', 'a', 'raise']),\n",

" list(['she', 'got', 'me', 'a', 'present']),\n",

" list(['ha', 'ha', 'ha', 'it', 'was', 'so', 'funny']),\n",

" list(['he', 'is', 'a', 'good', 'friend']),\n",

" list(['I', 'am', 'upset']),\n",

" list(['We', 'had', 'such', 'a', 'lovely', 'dinner', 'tonight']),\n",

" list(['where', 'is', 'the', 'food']),\n",

" list(['Stop', 'making', 'this', 'joke', 'ha', 'ha', 'ha']),\n",

" list(['where', 'is', 'the', 'ball']), list(['work', 'is', 'hard']),\n",

" list(['This', 'girl', 'is', 'messing', 'with', 'me']),\n",

" list(['are', 'you', 'serious', 'ha', 'ha']),\n",

" list(['Let', 'us', 'go', 'play', 'baseball']),\n",

" list(['This', 'stupid', 'grader', 'is', 'not', 'working']),\n",

" list(['work', 'is', 'horrible']),\n",

" list(['Congratulation', 'for', 'having', 'a', 'baby']),\n",

" list(['stop', 'messing', 'around']),\n",

" list(['any', 'suggestions', 'for', 'dinner']),\n",

" list(['I', 'love', 'taking', 'breaks']),\n",

" list(['you', 'brighten', 'my', 'day']),\n",

" list(['I', 'boiled', 'rice']), list(['she', 'is', 'a', 'bully']),\n",

" list(['Why', 'are', 'you', 'feeling', 'bad']),\n",

" list(['I', 'am', 'upset']),\n",

" list(['I', 'worked', 'during', 'my', 'birthday']),\n",

" list(['My', 'grandmother', 'is', 'the', 'love', 'of', 'my', 'life']),\n",

" list(['enjoy', 'your', 'break']),\n",

" list(['valentine', 'day', 'is', 'near']),\n",

" list(['I', 'miss', 'you', 'so', 'much']),\n",

" list(['throw', 'the', 'ball']),\n",

" list(['My', 'life', 'is', 'so', 'boring']),\n",

" list(['she', 'said', 'yes']),\n",

" list(['will', 'you', 'be', 'my', 'valentine']),\n",

" list(['he', 'can', 'pitch', 'really', 'well']),\n",

" list(['dance', 'with', 'me']), list(['I', 'am', 'starving']),\n",

" list(['See', 'you', 'at', 'the', 'restaurant']),\n",

" list(['I', 'like', 'to', 'laugh']),\n",

" list(['I', 'will', 'go', 'dance']),\n",

" list(['I', 'like', 'your', 'jacket']), list(['i', 'miss', 'her']),\n",

" list(['what', 'is', 'your', 'favorite', 'baseball', 'game']),\n",

" list(['Good', 'job']),\n",

" list(['I', 'love', 'to', 'the', 'stars', 'and', 'back']),\n",

" list(['What', 'you', 'did', 'was', 'awesome']),\n",

" list(['ha', 'ha', 'ha', 'lol']), list(['I', 'want', 'to', 'joke']),\n",

" list(['go', 'away']), list(['yesterday', 'we', 'lost', 'again']),\n",

" list(['family', 'is', 'all', 'I', 'have']),\n",

" list(['you', 'are', 'failing', 'this', 'exercise']),\n",

" list(['Good', 'joke']),\n",

" list(['You', 'totally', 'deserve', 'this', 'prize']),\n",

" list(['I', 'did', 'not', 'have', 'breakfast'])], dtype=object)"

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"for i in range(len(pred)):\n",

" \n",

" print(\" \".join(x\_test[i]))\n",

" \n",

" emote = emoji\_dict[str(pred[i])]\n",

" print(emoji.emojize(emote))"

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"I want to eat\n",

"ðŸ´\n",

"he did not answer\n",

"ðŸ˜“\n",

"he got a raise\n",

"ðŸ˜“\n",

"she got me a present\n",

"ðŸ˜\n",

"ha ha ha it was so funny\n",

"ðŸ˜\n",

"he is a good friend\n",

"ðŸ˜\n",

"I am upset\n",

"ðŸ˜“\n",

"We had such a lovely dinner tonight\n",

"ðŸ˜\n",

"where is the food\n",

"ðŸ´\n",

"Stop making this joke ha ha ha\n",

"ðŸ˜\n",

"where is the ball\n",

"âš¾\n",

"work is hard\n",

"ðŸ˜\n",

"This girl is messing with me\n",

"â¤ï¸\n",

"are you serious ha ha\n",

"â¤ï¸\n",

"Let us go play baseball\n",

"âš¾\n",

"This stupid grader is not working\n",

"ðŸ˜“\n",

"work is horrible\n",

"ðŸ˜“\n",

"Congratulation for having a baby\n",

"ðŸ˜\n",

"stop messing around\n",

"ðŸ´\n",

"any suggestions for dinner\n",

"ðŸ´\n",

"I love taking breaks\n",

"â¤ï¸\n",

"you brighten my day\n",

"â¤ï¸\n",

"I boiled rice\n",

"ðŸ´\n",

"she is a bully\n",

"â¤ï¸\n",

"Why are you feeling bad\n",

"ðŸ˜“\n",

"I am upset\n",

"ðŸ˜“\n",

"I worked during my birthday\n",

"ðŸ˜\n",

"My grandmother is the love of my life\n",

"â¤ï¸\n",

"enjoy your break\n",

"âš¾\n",

"valentine day is near\n",

"ðŸ˜\n",

"I miss you so much\n",

"â¤ï¸\n",

"throw the ball\n",

"âš¾\n",

"My life is so boring\n",

"â¤ï¸\n",

"she said yes\n",

"ðŸ˜\n",

"will you be my valentine\n",

"â¤ï¸\n",

"he can pitch really well\n",

"âš¾\n",

"dance with me\n",

"ðŸ˜\n",

"I am starving\n",

"ðŸ˜“\n",

"See you at the restaurant\n",

"ðŸ´\n",

"I like to laugh\n",

"ðŸ˜\n",

"I will go dance\n",

"ðŸ˜\n",

"I like your jacket\n",

"â¤ï¸\n",

"i miss her\n",

"â¤ï¸\n",

"what is your favorite baseball game\n",

"âš¾\n",

"Good job\n",

"ðŸ˜\n",

"I love to the stars and back\n",

"ðŸ˜\n",

"What you did was awesome\n",

"ðŸ˜“\n",

"ha ha ha lol\n",

"ðŸ˜\n",

"I want to joke\n",

"ðŸ˜“\n",

"go away\n",

"âš¾\n",

"yesterday we lost again\n",

"ðŸ˜“\n",

"family is all I have\n",

"ðŸ˜\n",

"you are failing this exercise\n",

"ðŸ˜“\n",

"Good joke\n",

"ðŸ˜\n",

"You totally deserve this prize\n",

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"I did not have breakfast\n",

"ðŸ´\n"

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" print(w)\n",

" emb = embedding\_index[w]\n",

" embedding\_x\_query.append(emb)"

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]

},

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"metadata": {

"id": "nDuVSzDIPDDI",

"colab\_type": "text"

},

"source": [

"### End !!"

]

}

]

}

Screen shot:

















