

# MODEL SUMMERY

Documentation:

DATE	03-11-2023
TEAM ID	NM2023TMID00283
PROJECT NAME	Subscriber Galore: Exploring the world's top youtube channels.

## Model Summery:

```
In [31]: from tensorflow.keras.layers import Input, Dense
from tensorflow.keras import Sequential
number_of_features = len(X.columns)
model = Sequential()
model.add(layer=Input(shape=number_of_features))
model.add(layer=Dense(units=32, activation='relu'))
model.add(layer=Dense(units=64, activation='relu'))
model.add(layer=Dense(units=128, activation='relu'))
model.add(layer=Dense(units=256, activation='relu'))
model.add(layer=Dense(units=512, activation='relu'))
model.add(layer=Dense(units=1024, activation='relu'))
model.add(layer=Dense(units=2048, activation='relu'))
model.add(layer=Dense(units=256, activation='relu'))
model.add(layer=Dense(units=128, activation='relu'))
model.add(layer=Dense(units=64, activation='relu'))
model.add(layer=Dense(units=32, activation='relu'))
model.add(layer=Dense(units=16, activation='relu'))
model.add(layer=Dense(units=1, activation='linear'))
model.summary()
```

Model: "sequential"

Layer (type)	Output Shape	Param #
=====		
dense (Dense)	(None, 32)	288
dense_1 (Dense)	(None, 64)	2112
dense_2 (Dense)	(None, 128)	8320
dense_3 (Dense)	(None, 256)	33024
dense_4 (Dense)	(None, 512)	131584
dense_5 (Dense)	(None, 1024)	525312
dense_6 (Dense)	(None, 2048)	2099200
dense_7 (Dense)	(None, 256)	524544
dense_8 (Dense)	(None, 128)	32896
dense_9 (Dense)	(None, 64)	8256
dense_10 (Dense)	(None, 32)	2080
dense_11 (Dense)	(None, 16)	528
dense_12 (Dense)	(None, 1)	17
=====		
Total params: 3368161 (12.85 MB)		
Trainable params: 3368161 (12.85 MB)		
Non-trainable params: 0 (0.00 Byte)		