**Pothole Classification Using CNN**

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Dataset: Image dataset of roads

Classes: Normal road(plain), Potholes

Model built: - CNN

cnn = tf.keras.models.Sequential()

cnn.add(tf.keras.layers.Conv2D(filters=128, kernel\_size=3, activation='relu', input\_shape=[64, 64, 3]))

cnn.add(tf.keras.layers.MaxPool2D(pool\_size=2, strides=2))

cnn.add(tf.keras.layers.Conv2D(filters=64, kernel\_size=3, activation='relu'))

cnn.add(tf.keras.layers.MaxPool2D(pool\_size=2, strides=2))

cnn.add(tf.keras.layers.Flatten())

cnn.add(tf.keras.layers.Dense(units=64, activation='relu'))

cnn.add(tf.keras.layers.Dense(units=1, activation='sigmoid'))

Labels: - Potholes - 1

Normal - 0

Dataset: - <https://drive.google.com/drive/u/0/folders/1-LioWgkdM81WKGzu4EnG48bq2zD70pVx>

Link to colab notebook :- <https://colab.research.google.com/drive/12ngIHxvkF7sc7w3JNLhwO8Eo14QCvOyC?usp=sharing>