Classify ImageNet classes with ResNet50

```
In [1]:
```

```
from tensorflow.keras.applications.resnet50 import ResNet50
from tensorflow.keras.preprocessing import image
from tensorflow.keras.applications.resnet50 import preprocess_input, decode_pred
import numpy as np
```

In [2]:

```
1 model = ResNet50(weights='imagenet')
```

2023-07-29 16:38:28.715797: I tensorflow/core/platform/cpu_feature_gua rd.cc:145] This TensorFlow binary is optimized with Intel(R) MKL-DNN t o use the following CPU instructions in performance critical operation s: SSE4.1 SSE4.2 AVX AVX2 FMA

To enable them in non-MKL-DNN operations, rebuild TensorFlow with the appropriate compiler flags.

2023-07-29 16:38:28.720031: I tensorflow/core/common_runtime/process_u til.cc:115] Creating new thread pool with default inter op setting: 4. Tune using inter_op_parallelism_threads for best performance.

In [3]:

```
img_path = '/Users/myyntiimac/Desktop/squirl.jpeg'
img = image.load_img(img_path, target_size=(224, 224))

x = image.img_to_array(img)

x = np.expand_dims(x, axis=0)

x = preprocess_input(x)
```

In [4]:

```
1 preds = model.predict(x)
```

In [5]:

```
1 print('Predicted:', decode_predictions(preds, top=3)[0])
```

In []:

Insight. so our image contain picture of fox_squirrel