

```
1 from keras.models import Model
2 from keras.layers import Input, Dense, Dropout
3
4 def build_osm_only_model(input_shape, model_depth, model_width=256):
5     osm_features_input = Input(shape=input_shape)
6     top = Dense(model_width, activation='relu')(osm_features_input)
7     top = Dropout(0.5)(top)
8     for i in range(0, model_depth-1):
9         top = Dense(model_width, activation='relu')(top)
10        top = Dropout(0.5)(top)
11    output = Dense(1, activation='sigmoid')(top)
12
13    model = Model(inputs=osm_features_input, outputs=output)
14    return model
```