

1b. Load Saved Model and Predict on New Data

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1 Import Required Packages

```
[ ]: import numpy as np
import joblib
```

2 Load Models

```
[ ]: # load one hot encoder model
ohe_model = joblib.load('../models/DT_ohe.joblib')

# load decision tree model
dt_model = joblib.load('../models/DT_model.joblib')
```

3 Predict on new data

```
[ ]: # new data sample
new_sample = np.array(['sunny', 'hot', 'high', 'False'])
```

```
[ ]: new_sample
```

```
[ ]: new_sample.shape
```

```
[ ]: # Convert this array to 1 row of data to feed to models
new_sample = new_sample.reshape(1,-1)
```

```
[ ]: new_sample
```

```
[ ]: new_sample.dtype
```

```
[ ]: # transform(encode) this one row of new data using ohe model
new_sample_enc = ohe_model.transform(new_sample)
```

```
[ ]: new_sample_enc.toarray()
```

```
[ ]: # Predict using DT model"  
# use encoded array to predict  
dt_model.predict(new_sample_enc)
```

It shows Prediction as “**no**”