```python
import pandas as pd
import numpy as np
import seaborn as sns
import warnings
warnings.filterwarnings('ignore')
```

```python
df=sns.load_dataset('iris')
df
```

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...	...	...	...	...	...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

150 rows × 5 columns

Next steps: Generate code with df   View recommended plots   New interactive sheet

```python
df.isnull().sum()
```

	0
sepal_length	0
sepal_width	0
petal_length	0
petal_width	0
species	0

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 5 columns):
 #   Column        Non-Null Count  Dtype
---  ------        --------------  -----
 0   sepal_length  150 non-null    float64
 1   sepal_width   150 non-null    float64
 2   petal_length  150 non-null    float64
 3   petal_width   150 non-null    float64
 4   species       150 non-null    object
dtypes: float64(4), object(1)
memory usage: 6.0+ KB
```

```
oh_species = pd.get_dummies(df['species'])
df = pd.concat([df.drop('species', axis=1), oh_species], axis=1)
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
/usr/local/lib/python3.11/dist-packages/pandas/core/indexes/base.py in get_loc(self, key)
   3804            try:
-> 3805                return self._engine.get_loc(casted_key)
   3806            except KeyError as err:

index.pyx in pandas._libs.index.IndexEngine.get_loc()

index.pyx in pandas._libs.index.IndexEngine.get_loc()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

pandas/_libs/hashtable_class_helper.pxi in pandas._libs.hashtable.PyObjectHashTable.get_item()

KeyError: 'species'

The above exception was the direct cause of the following exception:

KeyError                                  Traceback (most recent call last)
                              ⌄ 2 frames
/usr/local/lib/python3.11/dist-packages/pandas/core/indexes/base.py in get_loc(self, key)
   3810            ):
   3811                raise InvalidIndexError(key)
-> 3812            raise KeyError(key) from err
   3813        except TypeError:
   3814            # If we have a listlike key, _check_indexing_error will raise

KeyError: 'species'
```

Next steps: [Explain error]

```
df = sns.load_dataset('iris')
oh_species = pd.get_dummies(df['species'])
df = pd.concat([df.drop('species', axis=1), oh_species], axis=1)
```

df

	sepal_length	sepal_width	petal_length	petal_width	setosa	versicolor	virginica
0	5.1	3.5	1.4	0.2	True	False	False
1	4.9	3.0	1.4	0.2	True	False	False
2	4.7	3.2	1.3	0.2	True	False	False
3	4.6	3.1	1.5	0.2	True	False	False
4	5.0	3.6	1.4	0.2	True	False	False
...	...	...	...	...	...	...	...
145	6.7	3.0	5.2	2.3	False	False	True
146	6.3	2.5	5.0	1.9	False	False	True
147	6.5	3.0	5.2	2.0	False	False	True
148	6.2	3.4	5.4	2.3	False	False	True
149	5.9	3.0	5.1	1.8	False	False	True

150 rows × 7 columns

Next steps: Generate code with df   View recommended plots   New interactive sheet

Start coding or generate with AI.