

```
In [2]: import pandas as pd
```

```
df = pd.read_csv('agaricus-lepiota.data')  
df
```

```
-----  
FileNotFoundError                                Traceback (most recent call last)
```

```
Cell In[2], line 3
```

```
1 import pandas as pd  
----> 3 df = pd.read_csv('agaricus-lepiota.data')  
4 df
```

```
File ~\anaconda\lib\site-packages\pandas\util\decorators.py:211, in deprecate_kwarg.<locals>._deprecate_kwarg.<locals>.wrapper(*args, **kwargs)
```

```
209     else:  
210         kwargs[new_arg_name] = new_arg_value  
--> 211 return func(*args, **kwargs)
```

```
File ~\anaconda\lib\site-packages\pandas\util\decorators.py:331, in deprecate_nonkeyword_arguments.<locals>.decorate.<locals>.wrapper(*args, **kwargs)
```

```
325 if len(args) > num_allow_args:  
326     warnings.warn(  
327         msg.format(arguments=_format_argument_list(allow_args)),  
328         FutureWarning,  
329         stacklevel=find_stack_level(),  
330     )  
--> 331 return func(*args, **kwargs)
```

```
File ~\anaconda\lib\site-packages\pandas\io\parsers\readers.py:950, in read_csv(filepath_or_buffer, sep, delimiter, header, names, index_col, usecols, squeeze, prefix, mangle_dupe_cols, dtype, engine, converters, true_values, false_values, skipinitialspace, skiprows, skipfooter, nrows, na_values, keep_default_na, na_filter, verbose, skip_blank_lines, parse_dates, infer_datetime_format, keep_date_col, date_parser, dayfirst, cache_dates, iterator, chunksize, compression, thousands, decimal, lineterminator, quotechar, quoting, doublequote, escapechar, comment, encoding, encoding_errors, dialect, error_bad_lines, warn_bad_lines, on_bad_lines, delim_whitespace, low_memory, memory_map, float_precision, storage_options)
```

```
935 kwds_defaults = _refine_defaults_read(  
936     dialect,  
937     delimiter,  
938     (...)  
939     defaults={"delimiter": ",",  
940     }  
941 )  
942 kwds.update(kwds_defaults)  
--> 950 return _read(filepath_or_buffer, kwds)
```

```
File ~\anaconda\lib\site-packages\pandas\io\parsers\readers.py:605, in _read(filepath_or_buffer, kwds)
```

```
602 _validate_names(kwds.get("names", None))  
603 # Create the parser.  
--> 605 parser = TextFileReader(filepath_or_buffer, **kwds)  
607 if chunksize or iterator:  
608     return parser
```

```
File ~\anaconda\lib\site-packages\pandas\io\parsers\readers.py:1442, in TextFileReader.__init__(self, f, engine, **kwargs)
```

```
1439 self.options["has_index_names"] = kwds["has_index_names"]  
1441 self.handles: IOHandles | None = None  
-> 1442 self._engine = self._make_engine(f, self.engine)
```

```
File ~\anaconda\lib\site-packages\pandas\io\parsers\readers.py:1735, in TextFileReader._make_engine(self, f, engine)
```

```
1733 if "b" not in mode:  
1734     mode += "b"  
-> 1735 self.handles = get_handle(  
1736     f,  
1737     mode,  
1738     encoding=self.options.get("encoding", None),  
1739     compression=self.options.get("compression", None),  
1740     memory_map=self.options.get("memory_map", False),  
1741     is_text=is_text,  
1742     errors=self.options.get("encoding_errors", "strict"),  
1743     storage_options=self.options.get("storage_options", None),  
1744 )  
1745 assert self.handles is not None  
1746 f = self.handles.handle
```

```
File ~\anaconda\lib\site-packages\pandas\io\common.py:856, in get_handle(path_or_buf, mode, encoding, compression, memory_map, is_text, errors, storage_options)
```

```
851 elif isinstance(handle, str):  
852     # Check whether the filename is to be opened in binary mode.  
853     # Binary mode does not support 'encoding' and 'newline'.  
854     if ioargs.encoding and "b" not in ioargs.mode:  
855         # Encoding  
--> 856         handle = open(  
857             handle,  
858             ioargs.mode,  
859             encoding=ioargs.encoding,  
860             errors=errors,  
861             newline="",  
862         )  
863     else:  
864         # Binary mode  
865         handle = open(handle, ioargs.mode)
```

```
FileNotFoundError: [Errno 2] No such file or directory: 'agaricus-lepiota.data'
```

```
In [4]: import matplotlib.pyplot as plt  
import seaborn as sns
```

```
plt.figure(figsize=(8, 6))  
sns.countplot(data=df, x='class')  
plt.xlabel('Edibility')  
plt.ylabel('Count')  
plt.title('Edible vs. Poisonous Mushrooms')  
plt.show()
```

```
plt.figure(figsize=(8, 6))  
df['cap-shape'].value_counts().plot(kind='pie', autopct='%1.1f%%')  
plt.title('Distribution of Cap Shape')  
plt.ylabel('')  
plt.show()
```

```
plt.figure(figsize=(12, 10))  
sns.heatmap(df.corr(), annot=True, cmap='coolwarm')  
plt.title('Correlation Heatmap')  
plt.show()
```

```
plt.figure(figsize=(8, 6))  
sns.countplot(data=df, x='odor', hue='class')  
plt.xlabel('Odor')  
plt.ylabel('Count')  
plt.title('Odor vs. Edibility')  
plt.legend(title='Edibility')  
plt.show()
```

```
plt.figure(figsize=(8, 6))  
sns.scatterplot(data=df, x='spore-print-color', y='population', hue='class')  
plt.xlabel('Spore Print Color')  
plt.ylabel('Population')  
plt.title('Spore Print Color vs. Population')  
plt.legend(title='Edibility')  
plt.show()
```

```
-----  
NameError                                Traceback (most recent call last)
```

```
Cell In[4], line 5
```

```
2 import seaborn as sns  
4 plt.figure(figsize=(8, 6))  
----> 5 sns.countplot(data=df, x='class')  
6 plt.xlabel('Edibility')  
7 plt.ylabel('Count')
```

```
NameError: name 'df' is not defined  
<Figure size 800x600 with 0 Axes>
```