Data Science Notes

Python Fundamentals for Data Analysis

This section covers the basics of Python relevant to data science tasks.

- Variables and Data Types (int, float, string, boolean)
- Data Structures (Lists, Tuples, Dictionaries)
- Control Flow (if/else, for/while loops)
- Functions

NumPy

NumPy provides powerful N-dimensional array objects.

```
import numpy as np
```

Pandas

Pandas is essential for data manipulation and analysis, featuring DataFrames.

```
import pandas as pd
```

Visualization

Libraries like Matplotlib and Seaborn are used for creating plots.