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Python for Data Science Cheat Sheet



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Array Creation

- **`np.array()`**: Creates an array from a list or tuple.
- **`np.zeros()`**: Generates an array filled with zeros.
- **`np.ones()`**: Generates an array filled with ones.
- **`np.arange(start, stop, step)`**: Creates an array with evenly spaced values within a range.
- **`np.linspace(start, stop, num)`**: Generates an array with evenly spaced numbers between two values.
- **`np.eye(n)`**: Creates an identity matrix.
- **`np.full(shape, fill_value)`**: Creates an array filled with a specified value.
- **`np.empty()`**: Allocates an array without initializing its values.



Array Operations

- **`np.add(a, b)`**: Element-wise addition of arrays.
- **`np.subtract(a, b)`**: Element-wise subtraction of arrays.
- **`np.multiply(a, b)`**: Element-wise multiplication.
- **`np.divide(a, b)`**: Element-wise division.
- **`np.sqrt(a)`**: Computes the square root of each element.
- **`np.power(a, b)`**: Raises each element of `a` to the power of `b`.
- **`np.mod(a, b)`**: Element-wise modulus operation.
- **`np.clip(a, min, max)`**: Limits values in an array to a specified range.

