NumPy Array Operations - Quick Reference

Basic Arithmetic Operations

Add: arr + 5

Subtract: arr - 2

Multiply: arr * 3

Divide: arr / 2

Power: arr ** 2 or np.power(arr, 2)

Mathematical Functions

Square root: np.sqrt(arr)

Exponential: np.exp(arr)

Logarithm (natural):   np.log(arr)

Absolute value: np.abs(arr)

Round: np.round(arr)

Floor: np.floor(arr)

Ceil: np.ceil(arr)

Statistical Functions

Minimum: np.min(arr)

Maximum: np.max(arr)

Sum: np.sum(arr)

Mean (Average):   np.mean(arr)

Median: np.median(arr)

Standard Deviation: np.std(arr)

Variance: np.var(arr)

Other Useful Operations

Sort: np.sort(arr)

Reverse: arr[::-1]

Unique elements: np.unique(arr)

Clip values: np.clip(arr, min, max)

Cumulative sum: np.cumsum(arr)

Cumulative product: np.cumprod(arr)