

Finance Dataset Analysis Report

Visualizations

1. Heatmap of Correlation:

- Mutual Funds and Fixed Deposits show a strong positive correlation.
- Salary is steady and independent from other components.
- Freelancing is more unpredictable and loosely correlated.

2. Pairplot:

- Mutual Funds and Fixed Deposit grow together.
- Salary and Mutual Funds trend slightly upward together.
- Freelancing is a free spirit — no clear relation.

3. Histogram:

- Salary: Sharp peak — fixed monthly income.
- Freelancing: Broad — irregular projects.
- Mutual Funds: Peaks at regular amounts.
- FD & Emergency Fund: Spiky — irregular usage or refill.

4. Boxplot:

- Salary: Most stable and consistent.
- Freelancing: Big variability with income spikes.
- Emergency & FD: Sharp highs/lows — for need-based usage.

5. Scatterplot with Time Trend:

- Salary: Gradually rising — career growth.

- Freelancing: Bursts of income — not consistent.
- Mutual Funds: Slow, steady climb.
- FD & Emergency: Used when needed — smart money moves.

Summary of Findings:

- Salary is your rock — steady and dependable.
- Freelancing adds spice but not stability.
- Investments are growing — especially Mutual Funds.
- Emergency and Fixed funds are used with intention.