

# Financial Analysis System — One Page Project Summary

## Jaanvi Aggarwal | Country: Nepal

### Objective & Overview

This project is a Python–MySQL based Financial Analysis System developed independently to understand how financial analysts store, process, and interpret company-level financial data. The system allows users to input company financial statements, maintain a structured database, and calculate key financial ratios used in real-world analysis.

### Methodology & Workflow

Financial data is entered manually or imported via CSV files. Python scripts process and validate inputs before storing them in a MySQL relational database. Stored data is queried to compute profitability, liquidity, and growth ratios, which are displayed through a menu-driven interface.

### Case Studies

**Nepali Hydropower Startup:** Capital-intensive infrastructure model focusing on asset structure and long-term liabilities.

**Indian Tech Unicorn:** High-growth technology model emphasizing margins and revenue growth.

Metric	Hydropower Startup	Tech Unicorn
Net Profit Margin	18.4%	25.3%
Assets / Liabilities	1.22	1.36
Revenue Growth	6.1%	4.9%

### Technology Stack

Python 3.8+, MySQL 8.0+, mysql-connector-python, CSV, datetime. Developed and tested locally using VS Code.

### Significance & Learning

The project strengthened my understanding of financial statements while improving my ability to design databases, write modular Python code, and interpret results across different economic contexts.

### Future Improvements

Planned enhancements include data validation, visualization dashboards, and expanded multi-year analysis.