

# Archit Roy

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## EDUCATION

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### ICFAI Foundation for Higher Education

Hyderabad

*Bachelor of Arts in Economics*

*Aug 2023 – Present*

*Relevant Coursework:* Microeconomics, Macroeconomics, Econometrics, Financial Markets, Public Finance, Mathematical Analysis for Economists

## EXPERIENCE

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### EDIGITECH

Remote

*Market Research Data Analyst Intern*

*June 2025 - July 2025*

- \* Conducted a secondary market research study on Indian technology firm operating in AI/ML, data engineering, and indigenous security solutions.
- \* Collected, cleaned and standardised datasets from company websites, industry reports and news sources using Microsoft Excel (VLOOKUP, INDEX-MATCH, conditional formatting)
- \* Performed SWOT analysis and competitor benchmarking to assess growth potential and strategic fit
- \* Prepared analytical summaries and data-backed recommendations to support internal decision-making

## PROJECTS

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### Sensex & Nifty Market Analysis |

- \* Conducted comparative time-series analysis of India's benchmark equity indices to study price trends, returns, and volatility
- \* Analyzed historical market data using Excel and Power BI to visualize performance patterns and risk dynamics
- \* Interpreted risk-return patterns to compare relative stability and performance between Sensex and Nifty indices
- \* Computed daily returns, cumulative returns, and rolling volatility to assess short-term risk dynamics and market shocks

### Quant Stock Screener | SQL Based

- \* Built a rule based equity screening system using SQL to filter stocks based on valuation, momentum, and liquidity criteria
- \* Designed queries to identify investment candidates using structured financial data
- \* Demonstrated the use of SQL for financial data extraction, filtering, and analysis in an equity research context

### Inflation & Cost of Living Analysis |

- \* Analyzed Consumer Price Index (CPI) trends to study changes in inflation and purchasing power over time
- \* Examined the impact of inflation on household cost of living using macroeconomic indicators
- \* Linked empirical findings with economic theory to evaluate inflation's implications for living standards

### Risk & Return Analysis Across Asset Classes |

- \* Studied diversification benefits and volatility across multiple asset classes using historical market data
- \* Evaluated risk-return trade-offs to understand portfolio performance under varying market conditions
- \* Applied portfolio theory concepts to analyze how asset allocation influences volatility and performance
- \* Examined correlations between assets to understand their role in reducing overall portfolio risk

## TECHNICAL SKILLS

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**Data Analysis & Tools:** Excel, Power BI, SQL

**Economics & Finance:** Time-Series Analysis, Risk-Return Analysis, Inflation Analysis, Cost of Living Analysis, Portfolio Diversification, Equity Markets

**Reporting & Visualization:** Dashboard Creation, Data Visualization, Financial Reporting

**Databases & Querying:** SQL Queries, Data Filtering, Rule-Based Screening