

# Yash Verma

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## PROFILE

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Passionate and meticulous Data Analyst with a solid background in data science, statistics, and data handling. Experienced in examining complex datasets and deriving meaningful insights to support data-driven decisions. Skilled in multiple programming languages and tools, and enthusiastic about applying analytical skills to tackle real-world data problems.

## PROFESSIONAL EXPERIENCE

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### **VTY Consulting LLP, Data Analyst** (Jan 2025- Present)

- Conducted in-depth analysis of Medium Frequency Trade (MFT) orders to extract actionable insights supporting the algo trading business.
- Collaborated in the development of a client-based **Power BI dashboard**, enabling real-time performance monitoring and reporting.
- Assisted in building the organization's **database server** and contributed to the design of an internal **HRMS system** to streamline operations.
- Enhanced proficiency in **Python** for backend development, data cleaning, and analytics in both technical support and trading-related projects.
- Actively contributed to the automation of data workflows and performance reporting to aid strategic decision-making.

## PROJECTS

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### **Algo Trading Allocation Verification System**

- Engineered an automated system in Python to cross-check daily allocations for 400+ trading accounts, preventing allocation mismatches up to 5 Cr.
- Reduced human error and manual reconciliation time by 90%, ensuring reliable position sizing for hedging strategies.

### **Daily Reporting Automation Suite**

- Created Python scripts to automate daily Users MTM, Orderbook, and Gridlog file compilation, processing 20+ files daily.
- Integrated robust error checks to flag operator mistakes, ensuring 100% accuracy in daily submissions.
- Stored compiled outputs in a custom MYSQL DBMS, enabling fast, centralized access for analysis and reporting.

### **Algo Trading BI Dashboard**

- Designed and published 5+ interactive Power BI dashboards visualizing key trading metrics: daily MTM, AUM, return %, win/loss days, server and algo performance.
- Enabled real-time monitoring for the strategy team, boosting allocation decision efficiency by 30%.

### **Backtest Engine & Strategy Templates**

- **Developed a modular multi-timeframe Backtest Engine** in Python/Google Colab, integrating *Pandas*, *NumPy*, *vectorized execution*, and *OHLCV resampling* to simulate and evaluate algorithmic trading strategies with high-resolution historical data.

- **Implemented a unified indicator computation framework** supporting *SMA, EMA, RSI, MACD, Bollinger Bands, and custom quant indicators* across multiple timeframes, enabling scalable and reproducible quantitative research workflows.
- **Designed template-based strategy modules** (range breakout, multi-TF confluence, custom signal models) with automated signal generation, trade execution, PnL calculation, drawdown analysis, and performance metrics, optimized for rapid prototyping.
- **Built clean, extensible backtest architecture** with features like *transaction-cost modeling, slippage, mid-price calculation, data integration, and equity-curve visualization*, ensuring compatibility with live-trading pipelines and strategy deployment.

**HRMS Web App**

- **Developed a Role-Based Human Resource Management System (HRMS)** using *Python, Flask, HTML/CSS, JavaScript, and MySQL*, implementing secure **authentication, authorization**, and session management for Admin and Employee roles.
- **Designed and optimized CRUD modules** for employee management, attendance tracking, leaves, salary processing, incentives, and performance insights, ensuring scalable and maintainable backend architecture.
- **Implemented database schema design & ORM-based operations** for efficient data handling, integrating features like file uploads, error handling, and modular routing to improve system reliability.
- **Containerized the application using Docker & automated environment configuration**, improving deployment workflows and aligning with modern DevOps practices (Dockerfile, docker-compose).

**SKILLS**

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Programming Language: Python  
Data Visualization: Power BI, Seaborn, Matplot, Plotly  
Machine Learning: Regression, Classification, Clustering  
Data Analysis: MS Excel, Pandas, Numpy  
Database Management: MySQL

**EDUCATION**

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**Jaipur National University**  
Bachelor of Technology (Computer Science and Engineering), Sept 2020 – Aug 2024

**CERTIFICATES**

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<a href="#">Data Analysis with Python</a>	Coursera   IBM
<a href="#">Python for Data Science and AI</a>	Coursera   IBM
<a href="#">Data Analysis</a>	Microsoft