



PowerOfVolatility – Case Study

Transforming Trading Analytics with Real-Time Volatility Insights






PRESENTED BY:

Sajal Tech Solutions

 <https://powerofvolatility.com/>



Agenda

-  Who is the Client
-  Project Objectives
-  Key Pain Points & Drivers
-  Challenges & Issues
-  Solution Approach
-  Benefits Delivered
-  Final Outcome & Conclusion



Who is the Client

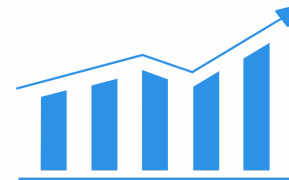
About PowerOfVolatility

Power of Volatility (POV) is an advanced trading analytics & educational platform. It empowers retail traders, investors, analysts, and enthusiasts with smarter trading insights.



Real-Time Data

Live market data & volatility metrics.



Options Flow

Tracks flow & trading activity.



Mission

Empower smarter trading decisions.

Project Objectives

Build a scalable platform for real-time volatility analysis.

Integrate educational resources with trading tools.

Ensure robust architecture to handle growth & responsiveness.

Provide a modern, intuitive UX for traders & analysts.



Pain Points & Key Drivers



Pain Points

- Lack of real-time volatility insights in existing tools.
- Poor user experience in competitor platforms.
- Difficulty in tracking options flow & market risk.



Key Drivers

- Demand for analytics-driven trading platforms.
- Need for learning + analytics integration.
- Push for scalable & responsive web apps.

Challenges & Issues



Real-Time Data Lag – Initial delays in rendering volatility charts via WebSocket feeds.



Complex State Management – Difficulty syncing live datasets across multiple UI components.



Responsive UI Gaps – Layout breaking on smaller devices, charts overlapping tables.



Secure Transactions – Authentication and Razorpay payment integration caused flow breaks.

Our Solution Approach



Technology & Architecture

- Built with React 19 + Vite for speed and scalability.
- Redux Toolkit + React Query for clean state management
- WebSocket integration for real-time data delivery.



UX & Design

- Responsive UI with TailwindCSS (mobile-first).
- Framer Motion animations for smooth interactions.
- Integrated educational content alongside analytics.



Collaboration & Deployment

- GitHub branching strategy + CI/CD pipelines.
- ESLint & naming conventions for code quality.
- Razorpay integration for seamless payments.

Modern Dashboard Experience

Easy Navigation: Simple sidebar menu for quick access to Dashboard, Scanner, and Settings.

Script	Price	AVG Option	VRP & P&L	Report
HDFC	1000	5000	+2.15% / +1.20%	Click Here
TCS	3400	10000	-1.25% / -0.80%	Click Here
INFY	1500	8000	+0.75% / +0.45%	Click Here
RELIANCE	1300	6000	+3.00% / +2.50%	Click Here
AXIS	1200	8000	+0.95% / +0.40% 2.15%	Click Here
SBI	1600	9000	+3.00% / +2.50%	Click Here
BAJAJ	1700	5000	-1.10% / -0.65%	Click Here
KOTAK	1000	7000	+1.25% / +0.70%	Click Here
WIPRO	1400	10000	-0.50% / -0.30%	Click Here
TATA	2000	3000	+3.50% / +2.25%	Click Here

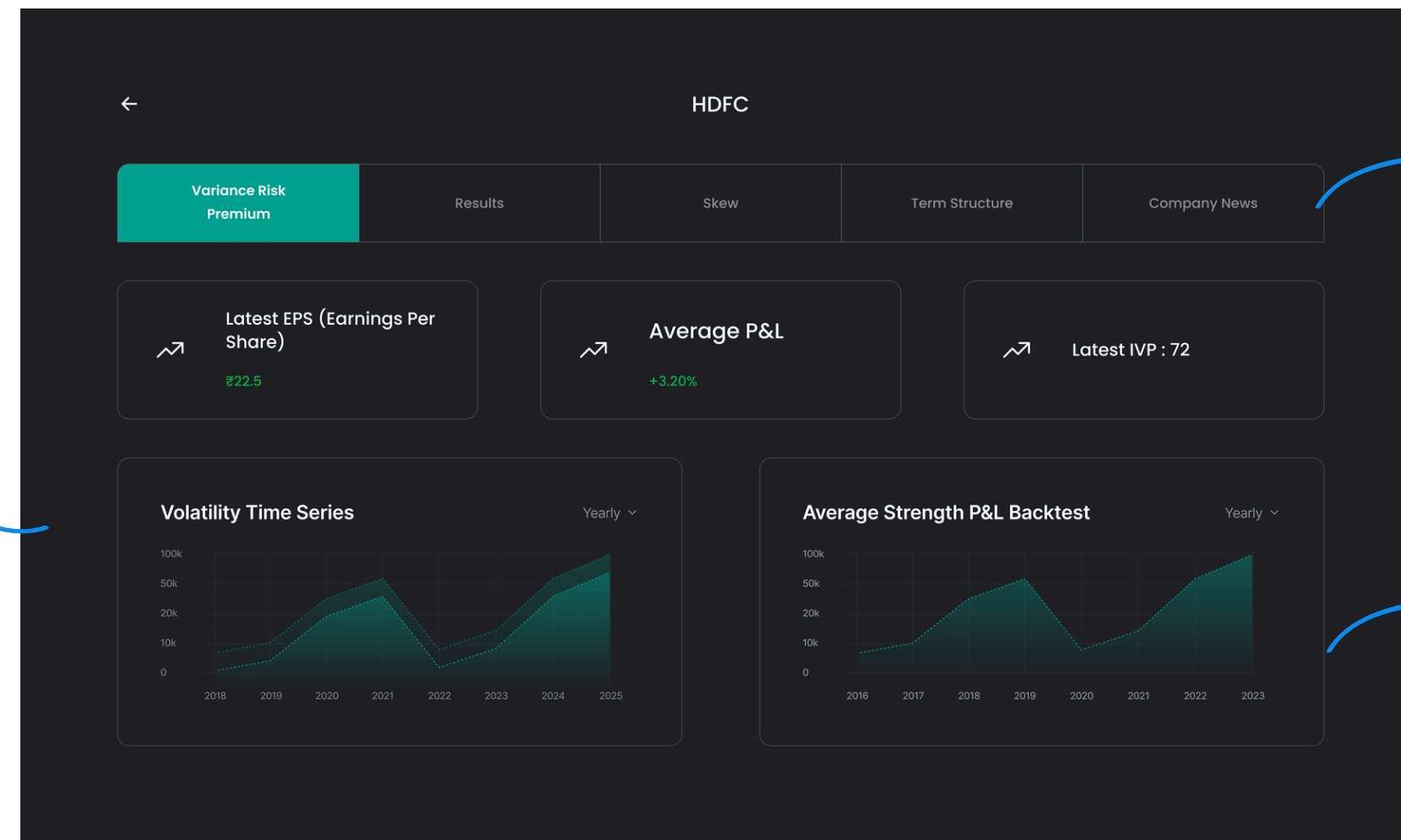
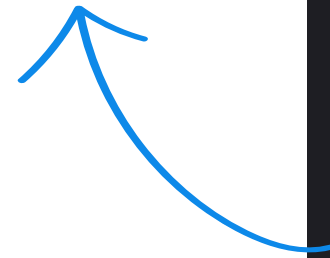
Interactive Filters: Users can create new scanners, filter data, and customize columns easily.

Data Overview: Clean table design showing key market metrics in real time.

Actionable Insights: Clear visual cues for gains/losses with quick access to detailed reports.

Key Highlights

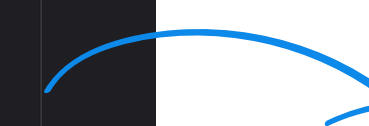
Compact Layout – Organized design for easy readability.



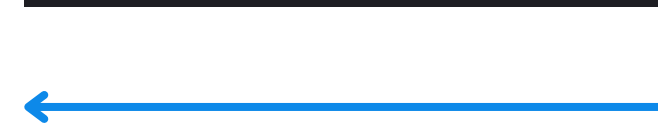
Quick Navigation – Tabs to switch between different data views.



Graph Insights – Visual charts for quick trend analysis.



Clear Data Cards – Key metrics displayed in structured cards.



Key Benefits Delivered



Real-Time Market Insights

Traders gained instant access to live volatility metrics, enabling quicker decision-making and stronger trading strategies.



Enhanced User Experience

A modern, responsive dashboard with intuitive navigation improved engagement and reduced the learning curve for new users.



Secure & Reliable Platform

Robust authentication, stable login, and secure payment workflows ensured smooth operations with zero downtime.



Future-Ready Architecture

Built with scalable frontend design, making it easy to add new features and adapt to evolving market demands.

The Final Outcome

The Power of Volatility project successfully transformed into a cutting-edge trading analytics ecosystem. By combining real-time dashboards, robust architecture, and intuitive UX, the platform now empowers retail traders, investors, and analysts to make informed decisions with confidence.

- ➔ Real-time data updates with no latency.
- ➔ Scalable, modular architecture for growth.
- ➔ Strong engagement from target users.
- ➔ Positioned as a next-gen platform for volatility-driven trading.



*Thank
You*