

Chirag Singhal

Financial Analyst — Markets · Valuation · Portfolio Optimization · Data-Driven Research

Ghaziabad, India · +91 74284-49707 · chirag@oriz.in · github.com/chirag127 · linkedin.com/in/chirag127 · oriz.in

SUMMARY

Data-driven markets analyst. I build valuation models, portfolio optimizers, and live market-signal tools — and deliver the analysis as working, reproducible code, not slides. I analyze equities and markets with real tooling: max-Sharpe portfolio optimization, Nifty/index valuation (PE, Buffett indicator, MMI fear/greed), IPO GMP tracking, and mutual-fund screening. I translate raw market data into clear buy/hold signals and reproducible Python reports. Comfortable explaining findings to non-technical clients. Rate: \$30–60/hr.

FINANCIAL ANALYSIS SKILLS

Analysis: equity valuation, portfolio optimization (max-Sharpe / Modern Portfolio Theory), technical analysis (support/resistance, trend), fundamental analysis (PE, P/B, Buffett indicator), market-microstructure signals (FII/DII flow, MMI fear/greed)

Financial modeling: Python (pandas/numpy/scipy), Excel / Google Sheets financial models, discounted cash flow, mutual-fund screening

Data & reporting: live-data API integration (NSE, market data providers), automated scheduled pipelines, reproducible research notebooks, data visualization, clear written/verbal delivery

Markets covered: Indian equities (NSE/BSE), IPO GMP, Nifty index valuation, mutual funds, macro indicators

FINANCE PROJECTS — PROOF OF WORK

portfolio-lab · max-Sharpe optimizer · Python · Astro portfolio-lab.oriz.in

- Interactive max-Sharpe portfolio optimization studio: given a basket of Indian stocks/ETFs, computes the efficient frontier, identifies the max-Sharpe allocation, and shows forward-looking risk/return decomposition. Backed by a rigorous empirical analysis debunking an assumed 20%-P2P premise.

oriz-ipo · live IPO GMP tracker · Python · hourly oriz.in

- Hourly IPO GMP (Grey Market Premium) analyzer: scrapes, normalizes, and signals IPO momentum; automated Git-as-DB storage; Telegram + ntfy push alerts. Production, runs continuously.

oriz-mmi · Market Mood Index tracker · Python · hourly oriz.in

- Hourly TickerTape MMI fear/greed gauge: polls api.tickerTape.in/mmi/now, stores history, visualizes the fear/greed dial, and alerts on regime changes. Keyless, fully automated.

oriz-nifty-signal · Nifty valuation signals · Python oriz.in

- Nifty index valuation tracker: PE ratio history, Buffett indicator (market-cap/GDP), and composite buy/hold signal. Reproducible Python pipeline, scheduled refresh.

flow-fii-dii-activity · FII/DII flow monitor · Python chirag127/flow-fii-dii-activity

- Automated daily tracker of NSE FII and DII net buy/sell activity; historical series + trend alerts.

EXPERIENCE — ANALYTICAL & DATA WORK

Software Engineer — Tata Consultancy Services oriz.in Bhubaneswar · Jun 2025 – Present

- Built a hybrid-RAG search + documentation system over a large enterprise knowledge base — information retrieval, data pipeline, and reporting; cut resolution times for a 20+ functional-area CPQ platform.
- Automate configuration validation, pricing logic, and CI/CD in Python across a complex multi-stakeholder system; React dashboards surface real-time backend state to business users.

Software Developer — Full Stack — QRsay.com oriz.in Remote · Jul 2023 – May 2025

- Designed event-driven order-processing pipeline (Apache Kafka) tracking financial transactions across distributed outlets; Razorpay payment integration with HMAC-verified reconciliation.
- Query optimisation and Redis caching cut API latency; modular dashboards presented operational metrics to business stakeholders.

QUALIFICATION & HONORS

B.Tech, Computer Science & Engineering — AKTU

Uttar Pradesh · 2020 – 2024

- College Topper (Rank 1). Senior Secondary (CBSE) — 97%.

Honors: JEE Advanced 2020 — AIR 11870 (top 1%, 1M+ aspirants). Claude Certified Associate, Anthropic (2026).