

Chirag Singhal

Data Analyst — Python · SQL · Dashboards · ETL Pipelines · Reporting

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SUMMARY

I turn messy data into clear answers. Python (pandas/numpy) + SQL + dashboards, framed around the decision you actually need to make. I build automated data pipelines — scraping, scheduled refresh, git-as-DB — so reports stay current without manual effort. Strong at exploratory analysis, metrics design, and concise written delivery. B.Tech CSE college topper; 3+ years shipping data pipelines, dashboards, and backend systems in production. Rate: \$30–70/hr.

DATA & ANALYTICS SKILLS

Analysis: data cleaning and wrangling, exploratory data analysis (EDA), statistical analysis, metrics design, cohort analysis, trend detection, anomaly flagging

Python: pandas, numpy, scipy, matplotlib, requests, BeautifulSoup, Playwright (web scraping), schedule/cron pipelines

SQL & databases: PostgreSQL (Neon/pgx), MySQL, SQLite (Turso edge), MongoDB, query optimisation, indexing

Dashboards & BI: React dashboards, data visualization (charts, time-series, gauges), Google Sheets / Excel automation

Pipelines & ETL: web scraping (httpx, Playwright), REST API ingestion, scheduled git-as-DB storage, Cloudflare Workers automation, Redis caching

Delivery: clear written reports, reproducible notebooks, actionable summaries for non-technical stakeholders

DATA PROJECTS — PROOF OF WORK

oriz-ipo · live IPO data pipeline · Python · hourly oriz.in

- Hourly IPO GMP (Grey Market Premium) scraper, normalizer, and signal pipeline: raw web data → cleaned series → momentum signal → automated Git commit (git-as-DB) → Telegram + ntfy push alerts. Fully automated, production.

oriz-mmii · Market Mood Index data pipeline · Python oriz.in

- Polls Tickertape MMI API hourly, stores fear/greed history, visualizes the gauge, and alerts on regime transitions. Demonstrates end-to-end API-to-dashboard pipeline with scheduled refresh.

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

- Daily NSE FII/DII net buy/sell data: automated scraping, historical series storage, trend visualization.

portfolio-lab · portfolio analytics · Python · optimization portfolio-lab.oriz.in

- Max-Sharpe portfolio optimizer: cleans price data, computes covariance matrix, runs scipy optimization, outputs risk/return decomposition. Includes a rigorous empirical analysis validating assumptions.

rag-lens · retrieval analytics · Python · eval metrics chirag127/rag-lens

- Production information-retrieval pipeline with a full evaluation suite: Recall@k, MRR, nDCG computed on every run; OpenTelemetry spans for latency profiling.

oriz.in live-data APIs · Astro · Cloudflare Workers · multiple trackers oriz.in

- Family of free, live-data tools on oriz.in — each backed by a scheduled Python pipeline delivering fresh data to the browser without a server.

EXPERIENCE

Software Engineer — Tata Consultancy Services

Bhubaneswar · Jun 2025 – Present

- Built hybrid-RAG search over a 100+ video / 40+ deck knowledge base; designed the ingestion pipeline, chunking strategy, and retrieval eval suite.
- Python automation for pricing/configuration validation; React dashboards surfacing backend metrics to business stakeholders; CI/CD pipelines for quality gates.

Software Developer — Full Stack — QRsay.com

Remote · Jul 2023 – May 2025

- MongoDB data model and query optimisation for a high-traffic food-commerce platform; Redis caching cut API latency; Apache Kafka pipeline tracked order state across distributed outlets; Razorpay transaction reconciliation.

QUALIFICATION

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%). Claude Certified Associate, Anthropic (2026).