



**NIKHIL SUBHASH SHINDE**

Experienced and client-facing **Senior Data Engineer and Tech Lead** with over 11 years in the software industry, delivering robust and scalable solutions across the **fintech, capital markets, and asset management** domains. Strong background in **financial data engineering**, including **trade lifecycle workflows**, **asset data integration**, and **risk and derivatives processing**.

Proficient in **Python**, **SQL**, and **cloud-native technologies**, with hands-on experience in **solution architecture**, **end-to-end data pipeline development**, and delivering data-driven platforms tailored for financial institutions. Solid understanding of **finance and capital markets**, with exposure to investment data structures and reporting requirements for equities, fixed income, and structured products.

Actively exploring **machine learning** applications in finance with a basic working knowledge of ML concepts and a strong interest in enhancing data analytics capabilities through model-driven approaches.

Successfully contributed to and led multiple **fintech and investment data projects** with organizations such as trade settlement application for **Axis Bank, Salt analytics Angel One, S&P Capital IQ (Asset Management), and WLCR Citi bank**, collaborating closely with business stakeholders, analysts, and data science teams.

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|  | Tech stats with self-ratting out of 10 |
| Domain | Analytic (6/10), Capital market (7/10), Core Banking (5/10) |
| Cloud | AWS (7.5/10), GCP (4/10), AZURE (3/10) |
| Database | MySQL (8.5/10), MongoDB (6.5/10), KDB (6/10) |
| Programing | Python (8/10), Go (6.5/10), PHP (7.5/10), C++ (5.5/10), Java (5/10), |

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| *Work Experience* | |
| *Sr Data Engineer* | **L&T Mindtree** Aug 2022 – Till present |
| *Sr Quant Report Engineer* | **Krishana capital** Apr 2022 – Aug 2022 |
| *Sr Analytic engineer << - Sr Software Engineer* | **Catchmedia Inc** Jun 2018 – Apr 2022 |
| *Team leader << - Sr Software Engineer* | **Orion Lab LLP** Sep 2015 – Mar 2018 |
| *Sr Software Engineer* | **Tejora Technologies LTD.** Sep 2014 – Jan 2015 |
| *Web Application engineer* | **Virtual Clearks.** Apr 2012 – Aug 2014 |

**Project Experience**

**Project 0 – Capital Group: Financial Historical Data Migration – Python Lead**

**Duration**: Feb 2025 – Present | Team Size: 5  
**Domain**: Investment Data Integration, ETL Modernization

**Description**:  
Leading a modernization initiative to transition financial historical data pipelines from legacy Informatica PowerCenter to a scalable PySpark-based framework, leveraging DataSwitch, a third-party ETL automation tool. The project is aligned with enterprise-level investment data architecture goals similar to Aladdin’s data integration strategies.

**Key Contributions:**

* Designed the end-to-end migration architecture focused on performance, modularity, and governance for equity and fixed income data.
* Led a 5-member team to automate Informatica-to-PySpark code conversion using DataSwitch mappings.
* Integrated source-target validation logic for schema matching and data consistency across ETL systems.
* Implemented Spark tuning strategies for handling historical financial datasets across SQL Server environments.
* Worked directly with Capital Group’s data governance team to ensure compliance with data quality standards and lineage expectations.

**Tech & Tools:** PySpark, SQL Server, Informatica XML, DataSwitch, Excel, Python, Git, Spark UI

**Project 1 – S&P Global: Investment Data Quality Framework – Tech Lead**

**Duration:** Sep 2024 – Dec 2024 | **Team Size:** 15+  
**Domain:** Investment Data Quality, Asset Management, Data Governance

**Description:**  
Designed and implemented a centralized data quality reporting framework across multiple investment data domains—Corporate Information (CI), Market Intelligence (MI), Structured Financial Info (SFI), and Physical Assets. Focused on delivering clean, audit-ready datasets for portfolio analytics, investment decisions, and regulatory compliance.

**Key Contributions:**

* Built real-time data quality monitoring pipelines using **AWS Glue**, **DataBrew**, and **Amazon Kinesis**.
* Developed ML-based deduplication & anomaly detection using **SageMaker** for improving CI/MI datasets.
* Built **data versioning and harmonization** pipelines ensuring historical traceability and compliance.
* Created a **QuickSight dashboard** to compare data vendor quality and support investment insights.
* Collaborated closely with business stakeholders, leading Agile ceremonies and delivering client workshops on investment data governance strategies.
* Ensured alignment with S&P’s enterprise-wide financial data standards akin to **Aladdin-style data operations**.

**Tech & Tools:** Python, SQL, AWS Glue, QuickSight, SageMaker, Kinesis, Agile, DataBrew

**Project 2 – S&P Global: Multi-Asset Data Pipeline Development – Tech Lead**

**Duration:** Jan 2024 – Dec 2024 | **Team Size:** 15+  
**Domain:** Investment Data Engineering, Market Intelligence, Financial Instruments

**Description:**  
Developed and optimized high-volume pipelines for corporate data, market trends, structured financial data, and physical asset information. Supported business teams in investment research, data aggregation, and analytics for portfolio and risk management.

**Key Contributions:**

* Architected ingestion and transformation pipelines for corporate and market data in **AWS/GCP**.
* Led implementation of **real-time data quality checks** using **Spark, Kafka**, and **Databricks**.
* Interacted with investment and analytics teams to ensure accuracy of **fixed income and equity** data feeds.
* Supported data preprocessing for **ML models** used in investment insights and alpha generation.
* Authored JIRA stories, maintained confluence docs, and managed team delivery using Agile/Scrum.
* Facilitated daily standups and sprint retrospectives, presenting updates to client product owners.

**Tech & Tools:** SQL, Python, Hadoop, Spark, Kafka, Databricks, GCP, AWS, JIRA, Agile

**Project 3 – Citi Bank: Global Credit Data Harmonization – Senior Data Engineer**

**Duration:** Sep 2022 – Dec 2023 | **Team Size:** 7  
**Domain:** Fixed Income, Credit Data Standardization, Regulatory Reporting

**Description:**  
Centralized credit and asset data from regional systems into a global format as part of the **WLCR data initiative**, enabling consistent reporting and standardization across private banking workflows.

**Key Contributions:**

* Migrated single-threaded processing to **multi-threaded, queue-based pipelines** for scalability.
* Integrated with **Kafka** for distributed messaging, and created job schedulers using Jenkins and UDeploy.
* Led efforts for data re-publication and reconciliation using unique ID generation modules.
* Configured EMEA-specific VMs and deployment infrastructure across SIT, UAT, and PROD.
* Applied knowledge of **fixed income instruments** and structured data to ensure proper transformations.

**Tech & Tools:** Python, Kafka, Jenkins, Helm, UDeploy, GIT, SQL Server, Credit Instruments

**Project 4 – TradingView Automation for Equity Signals – Backend Developer**

**Duration:** May 2022 – Aug 2022 | **Team Size:** 5  
**Domain:** Algorithmic Trading, Equities, Signal Processing

**Description:**  
Developed an **automated paper trading system** using TradingView signals and Python-based backtesting for equity strategy simulations.

**Key Contributions:**

* Backtested multiple equity strategies using **Python (Pandas, Stata)** and converted them into Pine Script.
* Created webhook interfaces and signal triggers for auto-trading simulation using Pipedream API.
* Enabled paper trading execution based on backtested rules and dynamic alerts.

**Tech & Tools:** Python, Pine Script, TradingView, Pandas, Stata, Excel, API Automation

**Project 5 – Catch Media SALT: Financial Analytics Tool for Angel One – Full Stack Engineer**

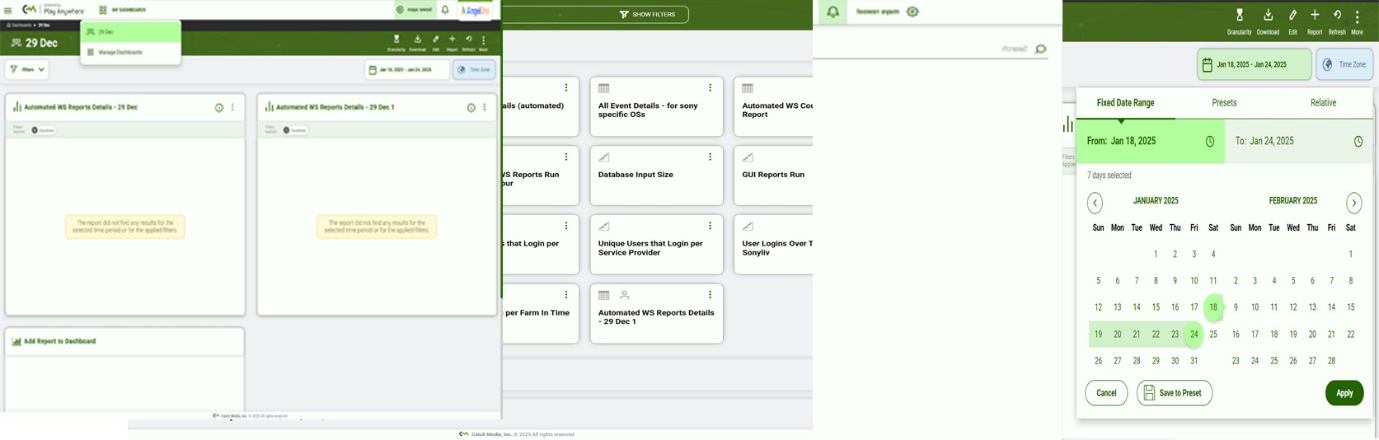
**Duration:** Sep 2018 – Apr 2022 | **Team Size:** 20  
**Domain:** Financial Analytics, Equity Insights, Dashboarding

**Description:**  
Catch Media, originally a media analytics company, built its **first-ever financial analytics tool**—SALT—for **Angel One**, a leading financial services firm. The platform provided equity data insights and real-time dashboards to support portfolio performance tracking, trading behavior analysis, and strategic decision-making for the client.

**Key Contributions:**

* Designed and implemented full-stack modules to process financial data for equity and trading analytics.
* Developed dynamic dashboards and reporting layers to monitor user behavior, portfolio trends, and investment KPIs.
* Built scalable ETL and analytics pipelines using **Python, GO, PHP**, and integrated data processing engines like **KDB+** and **Vertica**.
* Created high-performance visualizations using **Highcharts** and **AngularJS**, hosted over **GCP** infrastructure.
* Enabled Angel One to transition from fragmented data reports to a centralized, interactive analytics engine.

**Tech & Tools:** Python, GO, PHP, MySQL, Vertica, KDB+, Highcharts, AngularJS, GCP



**Other Noteworthy Projects:**

* **Market Data Aggregation using KDB+** – Aggregated real-time market feeds from global exchanges; enhanced decision-making for trading desks.
* **HFT PnL Tracker – Krishna Capital** – Built real-time profit/loss and trade management module for high-frequency trading.
* **Axis Bank trade Settlement System** – Engineered a high-speed financial transaction application for reconciliation.

**Technical Achievement**

1. **Built high-performance ETL pipelines** capable of processing **300 million records (841 GB)** within **30–40 minutes** using **Airflow with parallel executors**, optimized for investment data ingestion.
2. Achieved **record-breaking ETL throughput**, processing **10 million records in 1.2 seconds**, showcasing expertise in Spark optimization and scalable batch processing.
3. Engineered a **real-time publishing module** that pushes **30MB financial datasets per second** in under 1 second for capital markets data dissemination.
4. Developed a **backtesting engine** to evaluate equity trading strategies, integrating **custom indicators** and generating performance reports for research and investment insights.
5. Created a **custom Tableau extension** for high-granularity portfolio and market data visualizations, supporting deep-dive investment analysis.
6. Designed **web scraping pipelines** with dynamic regular expressions to extract structured financial product data from various ecommerce and investment platforms.
7. Applied **Go and Regex** to parse and extract metadata from **2GB+ data files**, useful for large-scale trade and compliance datasets.
8. Developed a **letter/document automation system** for Axis Bank capable of generating high-volume financial letters (PDF, DOCX, etc.) with optimal speed and accuracy.
9. Architected **real-time candlestick charting** for commodity and stock data using custom visual layers and analytics APIs.
10. Created a **high-traffic web system** (Slapamir.com) that scaled to withstand **1 trillion+ hits in a day**, applying performance engineering best practices.
11. Designed and implemented a proprietary **ORM and cache library** for financial systems requiring ultra-low-latency data retrieval.
12. Built **location-aware search modules using ElasticSearch with geospatial filters**, enabling financial data discovery at a global scale.
13. Developed **custom modules for ejabberd and XMPP** to support legacy browser-based financial messaging systems.
14. Engineered an internal **framework at Orion Labs** for reusable microservices in fintech product development workflows.
15. Experienced in using **frameworks like YII**, and integrating third-party APIs and tools into fintech and analytics ecosystems.

**PROFESSIONAL ENHANCEMENTS**

* Stock market prediction through financial astrology, 2023
* Master Python: Data Visualization with Charts, 2022
* Statistics for Data Analysis Using Python, 2022
* Quantitative Analysis Using Python, 2022
* Python for Finance: Financial Analysis for Investing, 2021
* Workshop in AWS and cloud Architecture, 2015

**LICENSES & CERTIFICATIONS**

* GitHub Professional Certificate, GitHub, Issued Jan 2024
* Python Professional Certificate, OpenEDG Python Institute, Issued Jan 2024
* ChatGPT and Generative AI: Pluralsight, Issued Dec 2023
* Prompt Engineering with Generative AI, Pluralsight, Issued Dec 2
* CFI Corporate Finance Foundations Professional, CFI, issued 2024

**EDUCATION**

* Msc Mathmatics (in progress)
* Bachelor in Computer Application (B.C.A) in 2013.
* Bachelor in financial Commerce (B. Com) in 2012.