ESHAN TIWARI

KDB/Q Developer

- ⊙ Mumbai
- ☎ 8433497426
- @ eshantiwari111@gmail.com
- 🔗 https://eshantiwari.com

Profiles

 Emperor111   in Eshantiwari

Skills

KDB+/Q	Python	C++
SQL	Git	DBMS
Data Structures	Algorithms	

Certifications

KDB+ Architecture
KX Academy

KDB+/Q Developer Level 1, 2
KX Academy

Data Structures & Algorithms
Udemy - Andrei Neagoie

Full Stack Web Development
Udemy - Dr. Angela Yu

Languages

English	Hindi	Japanese
Business	Native	Beginner

Interests

Linear Algebra | Quant | Mathematics

Cricket | Badminton | MMA | Chess

Trading | Philosophy | Anime

Projects

KX Academy : Tick Subscribers Architecture Implementation

As part of my capstone project and self-initiated learning, I designed and implemented a fully functional tick subscribers architecture using Q-KDB, crucial for processing and analyzing financial data.

- Built a tick subscribers architecture that included a ticker plant, a data handler, a Historical Database (HDB), and a Real-time Database (RDB).
- Generated and managed financial market tables such as Positions, Trade, and Orders, ensuring they were updated at regular intervals.
- Gained in-depth knowledge of advanced Q-KDB concepts, including joins, namespaces, splayed, partitioned, and segmented tables, and working with Q-scripts and Q-databases.
- Applied these advanced concepts to practical scenarios, demonstrating proficiency in data loading, cleansing, analysis, and reporting.
- Showcased my ability to design robust, scalable systems capable of handling high-frequency financial data through this project.

Experience

Lenek Technologies   Aug 2022 – Present
Product Development Executive   IIT Kanpur

- Assisted the data engineering team in **ETL development and data handling** within KDB+, including ingestion of device telemetry, splayed table design, and applying joins to enrich diagnostic datasets.
- Supported **integration of time-series medical device logs** with CRM/HIMS records for real-time operational visibility and audit trails.
- As Product Development Executive, oversaw both **software and hardware teams** to align device firmware outputs, AI diagnostics, and backend data pipelines into a unified product workflow.
- Participated in **environment maintenance** tasks such as data cleanup, schema validation, and performance tuning of KDB+ queries.

EVage Automotive   Apr 2021 – Jul 2022
Senior R&D Engineer   Chandigarh

Tech: Telemetry, Time-Series, Matlab, Python, Excel, (KDB+ integration)

- Spearheaded real-time telemetry analysis using gyroscope, GPS, and IMU signals for steering/suspension tuning.
- Explored **kdb+ Tick architecture** for live test-bench data ingestion; prototyped schema and replay scripts to simulate control scenarios.
- Developed a pipeline to process high-frequency road test data, later proposed as a KDB-compatible model for future deployments.
- Collaborated with signal processing and electronics teams to enhance resolution, alignment, and fault detection.

Education

DIT University   July 2015 - June 2019
B.Tech. (Mechanical Engineering)   Dehradun

St. Joseph School   May 2007 - April 2015
High School   Kota