

SHATABDI CHAUDHARY

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🌐 Shatabdi Chaudhary

📁 Shatabdi Portfolio

Experience

Mastercard (Contracted via Mthree/fulcrum)

Pune, India

Data Engineer

7 Oct 2024–Present

- Re-architected a **1.1B+** row (**2.16 TB**) SQL Server transaction table using **monthly date-based partitioning and column-store compression** (**290** partitions), reducing storage to **38.5 GB** (**98%** reduction) and significantly improving query performance for reporting and time-series analytics.
- Reduced Hadoop-to-SQL Server bulk load time from **5.6 hours** to **1.2 hours** by implementing a PySpark + XML-driven ingestion framework with partition-log-based incremental processing, orchestrated via SSIS.
- Built and operationalized daily multidimensional Auth and Debit cubes ingesting **10 GB/day** (Debit) and **34 GB/day** (Auth), engineering a Hadoop → SQL Server → SSAS pipeline with PySpark fact loads and SSIS-based Oracle dimension ingestion, achieving a record load of 38 minutes for **34 GB** Auth data.
- Developed executive Power BI dashboards on an **2 TB Live Enterprise SSAS Cube**, engineering time-series KPIs (MoM/YoY, growth trends) for top issuers, merchants and acquirers to enable large-scale payments intelligence.
- Built a Power BI User Access Management dashboard on **65M** rows, modeling Partner → Acquirer → Merchant hierarchies and enabling scalable region- and gateway-based access governance.
- Designed a **Power BI migration tracking dashboard** visualizing client movement between login gateways with region, email, and pending migration attributes for real-time visibility.
- Owned Power BI access governance and operations **configuring AD groups, environment-wise roles** (Stage/Prod-Demo/Prod), integration of data sources, refresh automation, and report on-boarding.

Wiley Edge

Bangalore, India

Software engineer intern

Feb 2024–Apr 2024

- Built *Frozen Fantasia*, a full-stack ice-cream shopping web app using **React and Spring Boot**, implementing RESTful APIs, Java, and SQL-based persistence for browsing, add-to-cart, and purchase flows.

Hope Foundation

Mumbai, India

Python, English, and Life Skills Trainer

Apr 2023–Mar 2024

- Delivered Python, English, and Life Skills training for **1,000+** Rural girls, creating customized curricula, assessments, and personalized feedback to improve confidence and technical readiness.

Bitstek Consulting

Hyderabad, India

Corporate Technical Trainer

July 2019–Mar 2023

- Technical Trainer with strong expertise in **Python, SQL, Power BI**, and data engineering. Delivered technical training, simplified complex concepts, and helped learners build practical skills in data handling, analysis, and visualization.

Celestial Institute of Technology

Pune, India

R&D Machine Learning Engineer (Intern)

Apr 2023–Jun 2023

- Designed a ball-bearing fault detection system using Python, Computer Vision, **YOLOv5**, and **NVIDIA CUDA**, trained on a custom annotated dataset of intact vs. faulty bearings.

Central Railway

Kurla & Dadar, Mumbai

Network Engineer (Intern)

Jun 2017–Jul 2017

- Studied optical fiber networks, train tracking systems, and worked with **UTS, PRS, PA, CTC, MUX, signaling, telephone exchange**, and interlocking systems used for safe, real-time railway operations.

Education

Bachelor of Electronics and Telecommunications

Chembur, Mumbai

University of Mumbai

08/2016–06/2019

Diploma in Electronics and Video Engineering

Chembur, Mumbai

Maharashtra State Board of Technical Education

08/2011–03/2016

Skills

- Python, SQL, Tableau, Power BI, SSIS, SSAS, SQL Server, Star Schema, Hadoop, Hive, R, PySpark/Spark
- AWS Cloud Certified, Data Visualization, Data Modeling, Cloud Computing, Excel,
- Java, Spring, Spring Boot, React, HTML, CSS, GIT | Voice Over Artist, English, Hindi, Marathi, Sanskrit

Projects

- **WANDERLUST** (Feb 2023): Travel app which supports maps, POIs, accommodations; voice assistant. (Python, Tkinter, Folium, gTTS, Google Maps API)
- **Smart Attendance** (Apr 2019): CV-based attendance system (Viola-Jones, LBPH) on Raspberry Pi. (OpenCV)
- **Password-Based Door Lock System** (Apr 2015): Microcontroller door-lock implemented using AT89S52.