

KUMAR SHIVAM

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SUMMARY

Results-driven Senior Data Engineer with 4+ years of experience, specializing in big data processing, cloud architecture, and scalable ETL pipelines. Proven expertise in distributed systems, data modeling, and real-time analytics. Adept at designing & optimizing data platforms for financial, educational, & enterprise applications. Passionate about leveraging machine learning & cloud-native solutions to drive business insights & operational efficiency.

EXPERIENCE

Goldman Sachs, Bangaluru - India

August, 2024 - Present

Finance - Associate

- Designing and optimizing Finance Stats Models to compute trade netting at multiple hierarchies.
- Architecting and modernizing microservices for high-performance data pipelines.
- Improved HDFS I/O efficiency by 82% via in-memory compute, pre-compute, and ORM remodeling.
- Led enterprise-scale migration from on-prem HDFS to Snowflake, achieving ~60% reduction in data latency and unlocking elastic scalability.
- Spearheading internal data modeling initiatives to modernize legacy ORM technologies, optimizing database interactions.
- Built custom ORM frameworks optimized for high-frequency trading and batch financial workloads, reducing query latency by up to 47%.
- Contributing to in-house big data libraries and open-source analytics tools, empowering 10+ teams with reusable, production-grade components.

OculusIT, Gurugram - India

April, 2023 - July, 2024

SQL DBA - Data Engineer

- Working on internal tool for **OculusIT** for realtime thread monitoring using ELK stack, automated the daily, weekly and monthly report on vulnerability assessment and KPI metrics.
- As a full-stack web developer responsible for developing & maintaining **Stevens, New Jersey** college website.
- Working on Next.JS for frontend & GraphQL is the querying language and using Contentful as CMS.
- Developed SQL scripts to build IPEC & Student Aluminai report using Python ETL and MSSQL.
- Collaborated with 25+ US Higher Ed. such as **Connecticut**, **CMU**, **Bowdoin** to manage their on-premise & cloud SQL Servers.
- Leading a team of 5 Data Engineers & SQL DBA's for data services in US Higher Ed.

Deloitte Consulting USI, Gurugram - India

March, 2022 - April, 2023

Analyst - Associate Data Engineer

- Data Engineer, working with Azure enabled data-pipelines using Python scripting using Synapse and ADF.
- Worked to design and implement end-to-end pipeline to ingest sales data from Nestle & Starbucks using PySpark & Databricks.
- Data Scientist, collaborated to develop auto-forecast prediction software & worked on StreamLit for live data visualization.
- Working as MLOPs Engineer and developing CNN image classifier, using Tensors and for Operations we containerised the whole system and orchestrated over Kubernetes and have Prometheus & Kibana monitoring enabled.

Tata Consultancy Services, Bangalore - India

May, 2021 - March, 2022

Systems Engineer

- Working with Azure Machine Learning model building and hypothesis testing using python for the prediction of sales on different parameters with 5M+ data-row.
- Coordinated with the team to data warehouse using Snowflake & perform computation on any scale independent data.
- Developed python image analyzing scripts using OpenCV and TensorFlow DL models for hand gesture recognition for automation command and controls and image labeling for product analyzing using Hugging face and YOLO AI.
- Developed Android Application using Java, XML for supply chain down-stream system, and IoT enabled smart containers.

Systems Engineer Intern

Feb, 2021 - May, 2021

- Worked as Data Analyst and performed ETL role, to code and design auto generated analytical reports for the daily, weekly and monthly reports on cooling chillers alerts used for storing frozen food.

- Maintained and created test and production data for testing using PostgreSQL.
- Performed unit, functional and integration testing on the developed code.

TECHNICAL SKILLS

- **Digital Technologies :** Azure, Android Development, Machine Learning, MSSQL, PostgreSQL, Node.js, OCR
- **Programming Languages :** Java, Python, Java, C++, JavaScript
- **Tools and Platforms :** Linux, Android Studio, Jupyter notebook, Visual Studio Code, PG Admin, SSMS

EDUCATION

University of Engineering & Management, Kolkata

June, 2017 - May, 2021

Bachelor's of Technology in Computer Science & Engineering

- Average CGPA : 9.36

KEY PROJECT

- **Trading Bot to predict Stock Price :** Developed Python cmd line interface code to predict the buy and sell prediction using EMV algorithm and past 3 days trading data.
- **Sentiment Analysis of Tweets using Python:** Developed the python code to predict the analytical sentiments of a products review and reaction tweets and comments and producing meaningful relation of features and product popularity.
- **E-commerce Application :** Designed and Developed E-commerce application using Java and Firebase for the local wholesalers of Howrah to connect retailers and wholesalers. 50+ types of products registered in the application.

ACHIEVEMENTS AND EXTRACURRICULARS

- Enterprise Supply Chain Planning Level I Exam v2019.1.
- Patent applied on message transmission using DTN, Live runed project during Fani and shared the data of 300+ emergency data with corresponding govt. bodies.
- Ranked 8th in West Bengal Chess U-17 (2016) | Chess rated 1901 on www.chess.com.