

Mohammad Umaid Ansari

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EXPERIENCE

Vahan.ai

Software Engineer

Bengaluru, Karnataka, India

May 2022 - Present

- Designed and implemented **Change Data Capture (CDC)** within **ETL pipelines** optimizing incremental data processing to **reduce latency to < 1 minute**, enhancing scalability and performance.
- Implemented **ELK Stack** alerting for a document classifier, enabling real-time failure detection and automated Slack notifications.
- Developed the backend for a **Python-Flask** data validator and workflow management tool, designing a unified workflow that added data validation at the extraction stage, maintaining data quality > **95%**. Integrated the tool with **ETL** workflows using **RabbitMQ**, streamlining data ingestion.
- Engineered a rule-based, configurable backend using **Python and FastAPI** for an internal invoicing tool, utilizing **PostgreSQL** for seamless data storage. Enabled dynamic invoice generation based on customizable client-specific conditions via a no-code Appsmith UI. Collaborated with finance and operations teams to streamline workflows, achieving an 80% reduction in manual invoicing processes and improving operational efficiency.
- Designed and implemented robust, **Python-based** cron-scheduled **config-driven ETL** pipelines to efficiently ingest data from multiple sources, leveraging **PostgreSQL** for storage and **Type 2 Slowly Changing Dimension (SCD)** techniques to maintain a complete historical log of events. Additionally, created a dedicated snapshot table in **Data Warehouse** to provide real-time access to the most up-to-date records, ensuring accurate data change tracking, seamless analysis, and improved operational efficiency with data quality > **95%**.

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Software Engineer - Intern

Bengaluru, Karnataka, India

Feb 2022 - May 2022

- Developed a lead scraper using **Python & Selenium** to extract leads from multiple organic channels, streamlining lead acquisition and driving **8x** improvement in channel-wise funnel performance and lead quality.
- Collaborated with cross-functional teams to deliver data-driven insights by developing **complex business queries and dashboards using SQL and Python**, enabling **KPI** tracking and campaign effectiveness analysis, which improved channel-wise funnel and lead quality by **8x**, contributing to a **20%** increase in revenue.

EDUCATION

B.Tech - Computer Science and Engineering (2018 - 2022)

DIT University

CGPA : 8.13

Dehradun, Uttarakhand - India

TECHNICAL SKILLS

Languages	Python, SQL (PostgreSQL, MySQL), C/C++, JavaScript, PHP, Java, HTML, CSS, Bash
Frameworks	FastAPI, Django, Node.js, Express.js, React.js, Redux.js, Material-UI, Bootstrap, Selenium
Tools & Technologies	Git/Github, Docker, RabbitMQ, AWS, GCP, Appsmith, JSON, Linux, Postman
Libraries	pandas, NumPy

ACHIEVEMENTS

- GeeksForGeeks : Institute Rank 1 among 903 Students and solved above 500+ problems
- LeetCode : 3 Star and solved 200+ problems
- Codechef : Highest Rating - 1620 (3 Star)
- CodeForces : Highest Rating - 583 (NewBie)
- HackerRank : 6 Star in Problem Solving