

Monis Khan

DATA ENGINEER — Data Modelling, Data Analysis, & Cloud Computing

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SKILLS

- **Programming Languages:** Python, SQL, Java, Linux shell scripting, data parsing, and transformation.
- **Data Engineering Tools:** Informatica PowerCenter, SSIS, Talend, Git, CI/CD pipelines, and ETL automation.
- **Big Data & Cloud:** Hadoop, PySpark, Hive, Kafka, AWS Redshift, S3, Lambda, and GCP BigQuery tools.
- **Pipeline Development:** End-to-end ETL/ELT pipeline design, deployment, monitoring, and failure recovery.
- **Project Platforms:** Agile, Scrum, Jira boards, versioning, and cloud-native data platform integrations.

WORK EXPERIENCE

Associate Developer

Cognizant

February 2020 – April 2023

India

- Directed migration of 4TB+ critical datasets from legacy platforms to Oracle databases, ensuring data integrity by checksum validation and reconciliation scripts, also enabling seamless transition without business downtime.
- Devised scalable low-level architecture frameworks, improving system throughput while meeting enterprise efficiency standards, reducing maintenance costs by 28% and enabling onboarding of new enterprise applications.
- Authored and tuned advanced SQL queries for data mapping and extraction, boosting reporting accuracy by 35% and cutting query execution time from 45 seconds to under 20 seconds for high-traffic analytical workloads.
- Automated 200+ recurring ETL processes using Shell scripting and Apache Airflow, enhancing workflow stability by 99.8% uptime and reducing manual intervention by 92%, freeing 30+ developer hours monthly for initiatives.
- Supervised ETL workflows for high-value financial billing cycles, processing 1.5M+ transactions monthly with 0% error rate, ensuring on-time delivery of billing statements and compliance with industry regulatory requirements.
- Partnered with business analysts across 3 functional units to translate complex requirements into technical deliverables, increasing stakeholder satisfaction scores by 31% and shortening requirements turnaround by 40%.
- Integrated Jenkins CI/CD pipelines into deployment workflows, decreasing release cycle time by 55% and increasing deployment success rates to 99.7% through enhanced build, test, and also deployment orchestration.
- Established different database health monitoring processes, also reducing unplanned downtime by 87% and improving performance stability for production workloads supporting over 5,000 concurrent end-users daily.
- Designed structured data validation checkpoints, and preventing critical data record mismatches in production.

Associate Developer

Cognizant

March 2019 – December 2019

India

- Engineered 15+ optimized ETL/ELT pipelines in Pentaho Data Integration, improving data ingestion speed and enhancing workflow reliability across different enterprise datasets of over 500GB, reducing manual intervention.
- Architected advanced data models and implemented business rules in SSIS, SSMS, and Oracle DB, increasing query performance by 38% while ensuring 99.9% data accuracy, and directly supporting analytical dashboards.
- Configured seamless data transformations between 6 heterogeneous systems, and eliminating 95% of data mismatches and also enabling real-time integration for overall transactional records exceeding 1 million daily entries.
- Optimized data pipeline performance by analyzing execution plans, tuning transformations, reducing ETL batch run-time from 3 hours to 1.7 hours, saving 35+ compute hours monthly and cutting operational costs by 22%.
- Coordinated and facilitated 120+ agile ceremonies, including scrums, sprint reviews, and retrospectives, improving cross-functional collaboration efficiency by 30% and achieving 100% consistent sprint delivery targets.
- Administered Git version control operations for 200+ code commits, ensuring conflict-free merges and streamlined collaboration, integrating CI/CD automation pipelines with DevOps teams to reduce deployment cycles by 50%.
- Developed and delivered 10+ structured knowledge transfer sessions for new team members, also accelerating overall onboarding timelines by 45% and enabling faster independent task handling within 2 weeks of joining.
- Implemented automated data validation scripts, reducing manual quality checks by 90% and preventing potential downstream errors, safeguarding compliance for regulatory reporting with zero audit discrepancies in 4 quarters.
- Collaborated with regional teams to integrate data governance policies, improving compliance tracking by 35%.

EDUCATION

Post Graduate Diploma in Big Data Analytics

Georgian College, Ontario

January 2024 – August 2024

Post Graduate Diploma in Project Management

Georgian College, Ontario

May 2023 – December 2023

Bachelor's in Electronics and Communication Engineering

Rajiv Gandhi Proudyogiki Vishwavidyalaya, India

May 2014 – May 2018