

Ayush Raj Arya

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Data Engineer with 3+ years of experience designing ETL pipelines, data validation frameworks, and large-scale regulatory reporting systems in financial domain. Skilled in SQL, Python, PL/SQL, Linux, and data quality engineering. Proven impact with 75% processing-time reduction, 83% faster issue detection and automation initiatives saving 100+ person-hours daily. Experienced in architecting scalable backend systems, optimizing data workflows, and leading cross-functional initiatives supporting enterprise analytics and regulatory reporting while also leveraging Generative AI tools.

SKILLS

- **Programming & Scripting:** SQL, Python, Shell Scripting, Linux, PL/SQL, C++
- **Data Engineering:** ETL/ELT, Data Warehousing, Data Modeling, Data Validation, Data Quality Engineering
- **Databases & Platforms:** Oracle DB, SQL Developer, OFSAA, Control-M
- **BI & Reporting:** OBIEE, Power BI
- **AI & Productivity Tools:** Generative AI (LLM-assisted development), Prompt Engineering, ChatGPT

WORK EXPERIENCE

ICICI Bank Ltd – Manager (Developer/Analyst)

Sep 2022 – Present

Key Responsibilities & Achievements

ETL & Data Engineering (OFSAA)

- Architected end-to-end ETL workflows within OFSAA supporting **Liquidity Coverage Ratio (LCR)** and **Asset Liability Management (ALM)** systems, enabling accurate T+1 regulatory reporting.
- Engineered a **data quality and reconciliation framework** across 9 enterprise data sources throughout the pipeline, reducing data inconsistencies by 20%
- Implemented real-time monitoring and alerting mechanisms at 4 different pinch points reducing pipeline failure detection time by 83%
- Orchestrated large-scale data population, reducing system processing time by **75%** and saving **100 person-hours** daily.
- Streamlined validation of inbound global data using **Linux and Control-M**, improving process uptime by **50%**.
- Leveraged **Generative AI** tools to debug and optimize queries, reducing debugging time by 50%
- Delivered 5+ regulatory and business requirements monthly in collaboration with an agile team of 45+ engineers and 85+ stakeholders.

Reporting & Analytics (OBIEE)

- Led development and ongoing maintenance of **150+ OBIEE reports** supporting regulatory (BLR and ALM) and internal analytical requirements saving 12 person-hours daily.
- Automated secure delivery of sensitive regulatory reports via email workflows, saving an additional **4 person-hours** daily.

Technical Leadership Initiatives (Risk Dashboard)

- Led executive-sponsored data extraction initiative enabling analytics for 20+ stakeholders and reducing delivery timelines from **2 weeks to 3 days**.
- Boosted scalable extraction architecture for curated OFSAA datasets improving data availability by 78%.
- Acted as the **single point of contact**, driving design decisions, resolving data dependencies, and ensuring delivery alignment across teams.

PROJECTS

NFT Art Generator | Python

- Built a **high-performance asset generation engine** capable of producing 100,000+ unique items.
- Implemented **hash-based uniqueness algorithms** to ensure collision-free generation.
- Created modular and reusable code for extensibility.

EDUCATION

Indian Institute of Technology Bhubaneswar, Bhubaneswar, Odisha

- **B.Tech & M.Tech**

CGPA: 7.22 | 2016-2021