

RAHUL BHOLA

B1/B2 Visa Holder (Valid till 2034)

Deputy Manager – Data and AI

Date of Birth: July 07, 1994

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CAREER SUMMARY

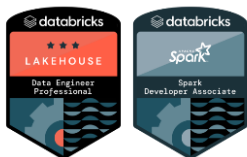
A highly motivated professional with **over 8 years of hands-on experience in data engineering, administration, ingestion, analysis, warehousing, and visualization**. Holds a **Master of Business Administration (IT & Systems)** from ICFAI University, Tripura, and a **Bachelor of Technology in Computer Science Engineering** from Maharshi Dayanand University, Rohtak.

Proven expertise in **Business Intelligence (BI)** and **Data Engineering**, with a strong focus on the **Microsoft Azure Platform**, including **Azure Data Factory, Azure Synapse, Databricks**, and Power BI. Currently serving as **Senior Consultant | Deputy Manager** at Deloitte South Asia, Gurugram.

Skilled in delivering high-impact projects across diverse domains, including **FMCG, Customer Excellence, Human Resources, Finance, and Market Insights**, providing actionable data solutions to drive business decisions. Adept at working in cross-functional teams, optimizing data workflows, and implementing **end-to-end data pipelines**.

PROFILE SUMMARY

- ❖ **Database Architecture Design:** Designed and implemented database architecture on the **Azure Platform**, improving system scalability by **30%** and reducing query response time by **50%**.
- ❖ **Optimized Data Pipelines:** Built dynamic, metadata-driven data pipelines using **real-time Spark Structured Streaming** with connectors like **Delta Lake, ADLS, Blob Storage, and Databricks Autoloader (Cloud Files)**. Delivered **end-to-end Azure migration** projects for European and UK clients, reducing data processing time by **40%** through the **Databricks Medallion Architecture**.
- ❖ **Data Modeling & Database Systems:** Designed, constructed, and tested data models, achieving a **25% increase in query efficiency**, and optimizing performance for Azure Synapse Dedicated and Serverless Pools.
- ❖ **Technical Advisory:** Provided expert guidance on database management tools such as Azure Data Factory, Databricks, and Synapse Analytics, resulting in a **25% reduction** in project delivery timelines.
- ❖ **Data Analysis & Mining:** Conducted advanced data mining and analysis, identifying key business trends contributing to a **14.2% revenue growth** for clients in the **FMCG and Finance sectors**.
- ❖ **Leadership & Team Management:** Supervised a team of **20+ data engineers and analysts**, driving successful delivery of technical and business objectives while improving team productivity by **20%**.
- ❖ **Policy Development:** Developed and enforced data access and recovery policies using Azure resources, reducing downtime by **35%** and enhancing data security compliance.



CERTIFICATIONS

- ❖ **Microsoft Certified: Azure Solutions Architect Expert (Score – 87%)**
- ❖ **Microsoft Certified: Fabric Analytics Engineer Associate (Score – 94%)**
- ❖ **Databricks Certified: Data Engineer Professional (Score-73%)**
- ❖ **Microsoft Certified: Azure Administrator Associate (Score-89%)**
- ❖ **Microsoft Certified: Azure Database Administrator Associate (Score-78%)**
- ❖ **Databricks Certified: Data Engineer Associate (Score-76%)**
- ❖ **Databricks Certified: Associate Developer for Apache Spark 3.0 (Score-83%)**
- ❖ **Microsoft Certified: Azure Data Engineer Associate (Score-79%)**
- ❖ **Microsoft Certified: Azure AI Fundamentals (Score-91%)**
- ❖ **Microsoft Certified: Azure Data Fundamentals (Score-93%)**
- ❖ **Microsoft Certified: Security, Compliance, and Identity Fundamentals (Score-91%)**
- ❖ **Oracle Cloud Infrastructure Foundations 2020 Certified Associate (Score-88%)**
- ❖ **Oracle PL/SQL Developer Certified Associate**

ACADEMIC PROFILE

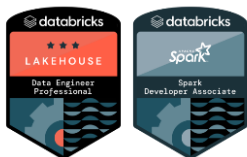
Qualification	Institution / University
Master of Business Administration- Information Technology & Systems (2020)	ICFAI University, Tripura
Bachelor's in Technology -Computer Science & Engineering (2016)	Maharshi Dayanand University, Rohtak
Class 12-(2012)	Delhi Public School, Sushant Lok
Class 10-(2010)	Delhi Public School, Sushant Lok

AWARDS, HONOURS & ACCREDITATIONS

- ❖ COE Appreciation Award: Leading by Example, Dec 2022 - KPMG India
- ❖ Sapphire Award, June 2021 – Optum
- ❖ Topaz Award, June 2021 - Optum
- ❖ Thank You Award, June 2019 – Webhelp
- ❖ Special Achievement Award, May 2017 -Liquidhub
- ❖ Team Excellence Award, May 2017 – Liquidhub
- ❖ Oxford Cambridge and RSA Awards
 - ❖ ICT Skills for Business
 - ❖ Creating Computer Graphics
- ❖ Databricks Academy Accreditation: Platform Administrator
- ❖ Databricks Academy Accreditation: Lakehouse Platform Fundamentals
- ❖ Databricks Academy Accreditation - Generative AI Fundamentals

Core Competencies

- ❖ Data Architecture & Modeling
- ❖ Project Management
- ❖ Azure Data Services
- ❖ Business Intelligence Tools
- ❖ Data Pipeline Development
- ❖ Stakeholder Management
- ❖ Problem-Solving & Analytical Thinking



WORK EXPERIENCE

Designation: **Deputy Manager – Senior Consultant – Data Engineering**

Current Employer: **Deloitte, South Asia, Gurugram, Haryana**

Period: **July 2023 – Present**

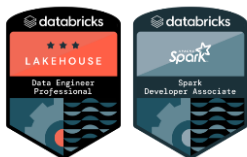
- ❖ **Data Architecture Development:** Designed and implemented robust data architecture using Azure Data Services (Azure Data Lake, Azure SQL Database, Azure Synapse Analytics), resulting in a **30% improvement in data processing efficiency** and a **20% reduction** in storage costs.
- ❖ **Business Alignment:** Ensured all data solutions adhered to **business requirements and industry best practices**, enhancing stakeholder satisfaction and project outcomes by **15%**.
- ❖ **ETL Process Management:** Led the development and maintenance of ETL processes, integrating data from **10+ sources into Azure-based data warehouses, improving data availability by 25%**.
- ❖ **CI/CD Implementation:** Created and maintained CI/CD pipelines for Azure resources, streamlining deployments across environments and **reducing deployment time by 75%**.
- ❖ **Pipeline & Notebook Optimization:** Optimized data pipelines and Databricks Notebooks, improving performance and scalability by 35% and reducing execution time by 25%.
- ❖ **Data Governance & Compliance:** Implemented robust data governance policies, ensuring data quality, integrity, and compliance with GDPR and other relevant regulations.
- ❖ **Team Leadership & Mentorship:** Led and mentored a team of **20+** data engineers and analysts, increasing team efficiency by **20%** and reducing error rates by **50%** through training and support on data engineering best practices.
- ❖ **Cross-functional collaboration:** Worked with data scientists, business analysts, and IT teams to deliver integrated data solutions, driving business insights that contributed to a **10% increase in operational efficiency**.
- ❖ **System Performance Optimization:** Monitored and optimized data storage, processing, and retrieval systems, achieving a **30% boost in system performance**.
- ❖ **Project Management:** Successfully planned and managed data engineering projects worth over \$2M, ensuring 100% on-time delivery within budget and scope.
- ❖ **Stakeholder Coordination:** Collaborated with stakeholders to define project requirements, deliverables, and milestones, achieving a **20% improvement in stakeholder engagement**.
- ❖ **Data Reporting & Visualization:** Developed interactive Power BI dashboards and reports, reducing manual reporting efforts by **50% and delivering actionable insights** to drive business decisions.
- ❖ **Comprehensive Documentation:** Created and maintained detailed documentation for data engineering processes, architectures, and solutions, improving knowledge transfer and reducing onboarding time by **30%**.

Designation: **Consultant – Azure Data Engineer**

Current Employer: **KPMG India, Gurugram, Haryana**

Period: **April 2022 – Jul -2023**

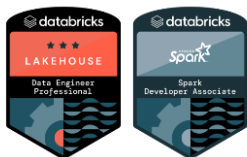
- ❖ **Functional & Technical Documentation:** Prepared comprehensive Functional Designs and Technical Solutions Documents based on **business requirements, improving clarity**, and reducing rework by **15%**.
- ❖ **Data Flow Implementation:** Established and managed the Medallion Architecture (Bronze, Silver, Gold layers), ensuring a **40% improvement in data accessibility and quality**.



- ❖ **Metadata File Creation:** Developed **YAML and JSON Metadata** files to orchestrate data flow, streamlining data processing pipelines and reducing manual interventions by **30%**
- ❖ **Databricks Development:** Designed and optimized Databricks Notebooks using **Spark-SQL for data extraction**, transformation, and aggregation from multiple file formats. Delivered custom Data Marts, reducing reporting preparation time by **25%** and uncovering actionable customer insights.
- ❖ **ETL Development:** Extracted, transformed, and loaded (ETL) data from source systems to Azure Data Storage Services using **Azure Data Factory, T-SQL, and Spark SQL**, enhancing data processing efficiency by **35%**.
- ❖ **Data Ingestion & Processing:** Ingested and processed data in Azure Data Lake, Azure Storage, Azure SQL, and Azure Synapse, ensuring **99.9% data accuracy**.
- ❖ **SQL Automation:** Automated workflows by developing and deploying SQL scripts, reducing manual tasks by **90%**.
- ❖ **Cluster Management:** Estimated cluster size, monitored, and resolved issues in Spark Databricks clusters, reducing downtime by **20%**.
- ❖ **Data Manipulation:** Applied **Spark DataFrame API** to perform data manipulation within Spark sessions, improving data transformation speeds by **30%**.
- ❖ **Spark Architecture Expertise:** In-depth understanding of Spark Architecture, including Spark Core, **Spark SQL, DataFrames, Spark Streaming, Driver Node, Worker Node, Stages, Executors, and Tasks**. Optimized execution hierarchies, improving job performance by **20%**.
- ❖ **Deployment & Fault Tolerance:** Managed deployment modes, execution hierarchies, and fault-tolerant systems, ensuring seamless data processing and **99%** system uptime.

Designation: Data Engineer
Employer: Webhelp, Gurugram, Haryana
Clients: Webhelp UK, The Very Group, easyJet, Vodafone
Period: October 2021 – April 2022

- ❖ **Analysis & Business Insights:** Conducted in-depth analysis of business trends, identifying opportunities for process optimization that improved operational efficiency by **20%**. Created metrics to measure success and leveraged complex SQL queries for segmentation, resulting in accurate insights that boosted decision-making by **15%**.
- ❖ **Cloud Infrastructure Migration:** Led the migration of legacy infrastructure to automated, cloud-based solutions on Azure, reducing infrastructure costs by 25% and enhancing scalability and reliability, with **99.9%** uptime post-migration.
- ❖ **Data Pipeline Development:** Designed and implemented end-to-end data pipelines in Azure Data Factory (ADF)
- ❖ **Data Storage Management:** Expertly managed Azure Storage Accounts, implementing secure and scalable data storage solutions that improved data retrieval times by 20%.
- ❖ **Azure Databricks Provisioning & Optimization:** Provisioned and fine-tuned Azure Databricks clusters, enhancing data analytics capabilities and reducing cluster setup and job execution times by **25%**.
- ❖ **Data Security & Compliance:** Implemented robust security policies, including role-based access control (RBAC) and encryption protocols, ensuring data compliance with **GDPR and other regulations**.
- ❖ **Collaboration & Stakeholder Engagement:** Worked closely with cross-functional teams, including data scientists, business analysts, and cloud architects, to deliver data-driven solutions aligned with business goals.

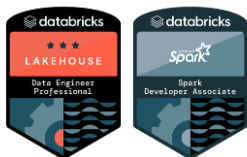


Designation: Associate Data Analyst
Employer: Optum, Gurugram, Haryana
Clients: UnitedHealthcare
Period: October 2020 – October 2021

- ❖ Reviewed data and classified the tables/measures functions by using multiple queries, views, and procedures.
- ❖ Develop, Configure, Maintain and Compute on **Azure Cloud**
- ❖ **Troubleshoot Azure-related** issues and engage internal teams for issue resolution.
- ❖ Involved in the complete Software Development Life Cycle (**SDLC**) process by analyzing business requirements and understanding the functional workflow of information from source systems to destination systems.
- ❖ Involved in designing **Parameterized Reports** for generating **Ad-Hoc reports** per client requirements.
- ❖ Assisted managers and business analysts in developing **reports, presentations, and analysis** for upper management.
- ❖ Involved in writing complex SQL scripts which include transact statements, database object validation, and exception handling to facilitate functionality in different modules.
- ❖ Created and maintained a **Chatbot** in Python using the RASA framework.

Designation: Business Intelligence Developer
Employer: Webhelp, Gurugram, Haryana
Clients: The Very Group, easyJet, Vodafone
Period: November 2017 – October 2020

- ❖ Function as the **liaison** between Business Stakeholders, Developers, Infrastructure teams, and project management groups
- ❖ Created databases and schema objects including tables, **indexes**, stored procedures, and functions as a part of the data management framework.
- ❖ Built **SSIS packages** and scheduled jobs to migrate data from various sources into SQL server and vice versa.
- ❖ Performed **root cause analysis** on failures. Resolve performance tuning-related issues and queries.
- ❖ Created **partition schemes** in the current database that map the partitions of a partitioned table or index to multiple **filegroups**.
- ❖ Scheduled and monitored all maintenance activities of SQL Server to meet business requirements activities including database consistency check, data backup & restore strategy, and index defragmentation.
- ❖ **Documentation & Knowledge Sharing**: Developed comprehensive documentation for data pipelines, infrastructure, and storage solutions, reducing onboarding time for new team members by **30%**. Conducted training sessions for team members to enhance their technical skills in Data Services.



Designation: Senior Software Engineer
Employer: Liquidhub, Gurugram, Haryana
Client: Microsoft Corporation
Period: September 2016 – November 2017

- ❖ **Automated** the process of loading the data from the client.
- ❖ Responsible for creating and managing various database objects like Complex Views using **XML**, Database triggers, Stored Procedures, Functions, and Indexes.
- ❖ Created **SSIS Packages** to Extract, Transform, and Load (ETL) the data into Reporting instances to generate the reports easily and quickly in Business Intelligence Development Studio (BIDS).
- ❖ Supported team in resolving **SQL Reporting services and T-SQL** related issues and creating different types of reports such as Crosstab, Conditional, Drill-down, Top N, Summary, Form Sub reports, and formatting them.
- ❖ Created SQL Jobs to schedule SSIS Packages
- ❖ Independently conducted **DBA activities** like Creating Multiple Databases, and Replication of Production Server to others like Development and CRP/ UAT.
- ❖ Assigned to Implement and maintain database security (create and maintain users and roles, assign privileges)
- ❖ Rebuilding the indexes at regular intervals for better performance.
- ❖ Scheduled database consistency checks and Backup recovery schedules.
- ❖ Removed hardcoding within existing packages by implementing **dynamic queries** and dynamic tables within those packages.

SKILLS SNAPSHOT

- ❖ Experienced on **Microsoft Azure Cloud Services & Databricks Lakehouse Platform**, Application Insights, Document DB, Internet of Things (IoT), Azure Monitoring, Key Vault, Visual Studio Online (VSO), SQL Azure and Power BI.
- ❖ Proficient in writing complex **T-SQL (DDL, DML)**, new features like **CTE, Ranking Functions, TOP (n), PIVOT, XML PATH, Physical, logical database design**, and Performance tuning.
- ❖ Proficient in applying the spark **DataFrame API** to complete Data manipulation within spark.
- ❖ Solid understanding of Spark Architecture including **Spark core, spark SQL, DataFrame, Spark streaming, Driver Node, Worker Node, Stages, Executors, and Tasks**
- ❖ Proficient knowledge of **Data Warehousing methodologies and concepts, including star schemas, snowflake schemas, ETL processes, dimensional modeling, and reporting tools**
- ❖ Firsthand experience in **Performance Tuning, Query Optimization**
- ❖ Ability to perform Database full Backup, Transaction log backup & differential backup in a routine manner.
- ❖ **Shrink Transaction and Data log files** and perform a root cause analysis of the issue.
- ❖ Experience in creating **configuration files** to deploy the SSIS packages across all environments.
- ❖ Experienced in using **SQL Server Profiler and SQL Server Agent**
- ❖ Experienced in creating Report Models and generating Reports for business analysis and management purposes using SQL Server Reporting Services (SSRS)
- ❖ Experience in developing **Dashboard reports, Parameterized Reports, linked reports, and Sub reports** by Region, Year, Quarter, Month, and Week
- ❖ Ability to create custom **Excel dashboards and reports** using various functions, pivots, and charts.