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 seasoned, highly motivated, and result-oriented individual with **8 years of experience** in data administration, analysis, ingestion, warehousing, and visualization. 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.

Expertise in the **Business Intelligence and Data Engineering** domains focuses on the **Azure Platform.** Currently working as a **Senior Consultant -Deputy Manager** at **Deloitte South Asia, Gurugram** on multiple projects in FMCG, HR, Finance, and Market Insights Domains

PROFILE SUMMARY

❖ **Designed** and **developed database architecture** for information systems projects on the **Azure Platform**

❖ Built dynamic metadata-driven optimized data pipelines with real-time **Spark** Structured Streaming from connectors like **Delta, ADLS, Blob, and Autoloader (Cloud Files), end-to-end implemented on Databricks medallion design** for European and UK-based clients as a part of their Legacy to **Azure Migration projects**

❖ **Designed, constructed, modified, integrated, implemented, and tested** data models and database management systems **including Azure Synapse Dedicated and Serverless Pools**

❖ Conducted research and provided advice to other informatics professionals regarding the selection of **applications and implementation of database management tools such as Azure Data Factory, Databricks, and Synapse**

❖ Operated database management systems to analyze data and perform data mining analysis

❖ **Managed, Led**, and **supervised** members of the team to technical and business goals

❖ Developed **policies and procedures** for network or Internet database access and usage and for the backup and recovery of data using the **Azure Resources**

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

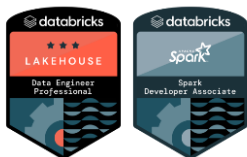| Qualification	Institution / University
Master of Business Administration-Information Technology & Systems (2020)	ICFAI University, Tripura
Bachelor's in Technology -Computer Science & Engineering (2016)	Maharshi Dayanand University, Rohtak
Class 12-(2012)	Delhi Public School, Sushant Lok
Class 10-(2010)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

WORK EXPERIENCE

Designation: **Deputy Manager – Senior Consultant – Data Engineering**
Current Employer: **Deloitte, South Asia, Gurugram, Haryana**
Period: **July 2023 – Present**

- ❖ Developed and implemented **robust data architecture and design solutions using Azure Data Services** (**Azure Data Lake, Azure SQL Database, Azure Synapse Analytics**, etc.)
- ❖ Ensured data solutions align with **business requirements and best practices**
- ❖ Oversaw the development and maintenance of **ETL processes to integrate data from various sources** into **Azure-based data warehouses**
- ❖ **Created and maintained CI/CD pipelines and releases for various Azure Resources like DataBricks, AzureSQL and DataFactory across environments**
- ❖ Optimized data pipelines and **Databricks Notebooks** for performance and scalability
- ❖ Implemented **data governance policies** to ensure data quality, integrity, and compliance with **relevant regulations**
- ❖ **Lead and mentored a team of 20 data engineers and analysts**, providing guidance and support to ensure high-quality deliverables along with **providing training** and support to team members and stakeholders on data engineering best practices
- ❖ **Collaborated with cross-functional teams**, including data scientists, business analysts, and IT staff, to deliver integrated data solutions
- ❖ Monitored and **optimized the performance** of data storage, processing, and retrieval systems
- ❖ Planned and managed data engineering projects, ensuring timely delivery **within budget and scope**
- ❖ Coordinated with stakeholders to **define project requirements, deliverables, and milestones**
- ❖ Developed and maintained data reporting and visualization solutions using tools like Power BI
- ❖ Ensured reports and dashboards provide actionable insights to **support business decision-making**
- ❖ **Created and maintained** comprehensive documentation for data engineering processes, architectures, and solutions

Designation: **Consultant – Azure Data Engineer**
Current Employer: **KPMG India, Gurugram, Haryana**
Period: **April 2022 – Jul -2023**

- ❖ Preparing **Functional Designs** and **Technical Solutions Document** from **Business Requirements** presented by stakeholders
- ❖ Establish the flow of data through **Medallion Architecture** (Bronze, Silver, and Gold Layers)
- ❖ Creation of **YAML** and **JSON** Metadata files to orchestrate the above flow of data
- ❖ Experience in developing **Databricks Notebooks** using Spark-SQL in Databricks for **data extraction, transformation, and aggregation from multiple file formats** for Analyzing & transforming the data to uncover insights into the customer usage patterns through the creation of custom Data Marts for reporting purposes
- ❖ Extract Transform and Load data from sources Systems to Azure Data Storage services using a combination of **Azure Data factory, T-SQL, and Spark SQL**
- ❖ Data ingestion to one or more **Azure services** (Azure Data Lake, Azure Storage, Azure SQL, Azure DW) and processing of the data in Azure Databricks
- ❖ Hands-on experience in developing SQL Scripts for **automation**
- ❖ Responsible for estimating the cluster size, monitoring, and troubleshooting the Spark Databricks cluster
- ❖ Ability to apply the spark **DataFrame API** to complete Data manipulation within spark session
- ❖ Good understanding of Spark Architecture **including spark core, spark SQL, DataFrame, Spark streaming, Driver Node, Worker Node, Stages, Executors and Tasks,**
- ❖ Deployment modes, the Execution hierarchy, fault tolerance, and collection
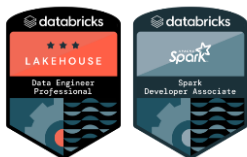
Designation: **Data Engineer**
Employer: **Webhelp, Gurugram, Haryana**
Clients: **The Very Group, easyJet, Vodafone**
Period: **October 2021 – April 2022**   **November 2017 – October 2020 (Business Intelligence Developer)**

- ❖ **Analyze and define trends** that support business process changes and metrics that measure success. Utilize SQL queries to analyze and segment the process
- ❖ **Managed the migration** of traditional infrastructure to **automated cloud-based infrastructure**
- ❖ Experience in **building, deploying, and troubleshooting data extraction** for huge of amounts of records using **Azure Data Factory (ADF)**
- ❖ Knowledge of the **Azure Storage accounts**
- ❖ Good understanding of provisioning **Azure Databricks and resources**
- ❖ 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, index defragmentation.
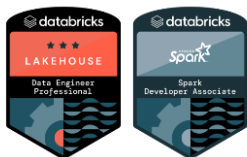- ❖ Prepared the **technical documentation** for applications built in house

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: **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 Sever 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

❖ Experience in **Microsoft Visual C#** in the script component of SSIS

❖ Experienced in using **SQL Server Profiler and SQL Server Agent**

❖ Built reports using Microsoft Excel, SSRS, Qlikview, and Power BI

❖ 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