

Sumit Sarabhai

Sr. Consultant, Microsoft Consulting Services

Sumit has over 12 years of experience in information technology, including in-depth technical expertise in solutioning & consulting, technical support, pre-sales, and people management with exceptional customer handling skills. He has in-depth technology, problem solving and development experience in a wide range of industries. He has a strong knowledge on databases, cloud solutions architecture, cloud migration strategy, consulting and implementation, capacity planning, consolidation and risk assessment. He works on Microsoft consulting projects and believes himself as a trusted advisor for the customers and partners.

Professional Experiences

Microsoft Corporation – Consulting Services

Role: Sr. Consultant – Data and Artificial Intelligence

Products: SQL Server, Azure SQL DB, HDInsight, DSVMS, ML Server, Azure IoT, SSAS, AAS, SSRS, ADW, ADLS, ADF, Logic Apps, Automation Service and PowerBI.

January 2018 – till date

Core Technical Proficiency and Responsibilities:

Company Name: Tesco

- Worked as a **Data Architect** for an application and **SQL Server database migration** project of employee payroll system from SQL Server 2005 to SQL Server 2017.
- Responsible for **managing smaller and VLDB data migration**, ranging from 200 MB to 5 TB in size across 3000 servers in the UK.
- Designed a pipeline and **fully automated deployment** of databases, SSIS packages and SSRS reports using powershell and Azure DevOps pipelines for CI\CD.

Client Name: Unilever

- Provided consultation on a **Connected Purifiers** using **Azure IoT hub**. The project was implemented across 7 countries in APAC reaching out to about 100,000 customers across regions through catering to over millions of device to cloud and cloud to device messages per minute.

- Designed and architected **Universal Data Lake** which is currently catering all the internal businesses and new projects across Unilever. The data lake is ingesting data from **16 sources of varied structure** and **processing almost 10 GB data per day** across 6 different business verticals.
- Worked on a prototype for **text analytics models (custom Q&A)** using python (Spacy library), LUIS, Azure Search and Azure SQL DB to provide the best possible results with an accuracy close to 90%.
- Created a prototype for pallet box counting in factory for inventory management using a stream of video using Google TensorFlow **custom object detection APIs**.
- Worked with the **Centre of Excellence (CoE) team** to help them get started with their **IoT projects**, building a reference architecture for future IoT projects viz. Digital Factories and Connected Ice Cream Cabinets completely built of Azure IoT and other Azure services like HDInsight, Azure Databricks etc.

Customer Name: Shell

- As a **Data Architect** developed **Retail Data Platform** for Shell, which caters to their Real Estate downstream business users to get a 360-degree view of the state of the business and draw conclusions out of it. The data lake is currently **catering 50 GB data every day** and processing **300-500 user requests every hour** with a performance .

Customer Name: Ministry of Finance, Govt. of India

- Worked with **Govt. of India** for building highly critical **Datawarehouse and Reporting** environment for consumption by the top leadership of the Government with SQL Server 2016, SQL Server Analysis Services and PowerBI.
- The size of the data warehouse was around **3 TB serving data to 5 tabular model based cubes** of sizes about 50 Gb each catering to **220 reports** through PowerBI.
- Also, showcased a PoC of the same architecture using Azure DW and AAS. Was responsible for **Architecting the project, capacity planning and implementation and end to end solutioning**.

Customer Name: Anheuser Busch InBev (AB InBev)

- Provided consultation to **largest beer producing brand** of the world on helping them **setting up its analytics center** in India.
- Responsible for **smooth landing of their team on Azure services** viz. HDInsight, Data Science Virtual Machine, Microsoft ML Server, etc. to be consumed by their Data Scientists and Analysts.
- Also, responsible for helping them **architecting their new analytics projects** involving Microsoft Azure analytics stack – one such example is building their **Enterprise Data Warehouse** or a data lake to be consumed by the analytics team worldwide.
- Also, responsible for **orchestrating the data flow** using ADF, Logic Apps and Azure Automation Service for end-end solution and scheduling. Have been able to achieve **Version Controlling of ML models** using SQL Server DB, **Source Controlling of R code** using Git and VSTS and **Source Controlling of ADF pipelines** through VSTS.

Core Business Responsibilities:

- **Collaboration with the Microsoft Sales** team as Technical Pre-Sales Consultant in understanding customer's environment and envisioning the architecture and creating PoCs to maximize their ROI for using Microsoft products and services and help landing deals for the field teams.
- Responsible for providing **high class technical delivery experience** to the Microsoft Enterprise customers on Microsoft Data Platforms **exceeding customers satisfaction**.
- **Technical Workshop** delivery to the enterprise customers on the cutting-edge technologies on Data and Artificial Intelligence for Microsoft Stack
- **Lead readiness efforts** in the Data and AI India team and making sure engineers and consultants are well trained on latest Data Platform technologies.

Contributions to India Data Platform Community

Speaker in KDSSG Tech Unite 2018 on Azure SQL Database Patterns and Best Practices.

Microsoft Corporation – Services

Role: Sr. Premier Field Engineer

Product Implemented: SQL Server, Azure SQL DB, SSRS, SSAS, PowerBI, Virtual Machines, ADLS

March 2016 – Dec 2017

Core Technical Proficiency and Responsibilities:**Customer Name: Ernst and Young**

- Strategized and developed the plan for the **mega migration activity** involving moving about **80,000 databases spread over 6000 servers** to Azure SQL Database and SQL Server on Azure VM.
- Based on the resource consumption by each database and their sizes through customer SQL script, helped them consolidated their databases to be grouped under either SQL Database or SQL Server on Azure VM.

Customer Name: Ministry of HRD, Govt. of India

- Have successfully delivered first phase of India's largest public-sector MOOC platform –under the Govt. of India in collaboration with MCS, with responsibilities on **developing strategy** of SQL Server **installation, configuration, management, HADR strategy**.
- The MOOC platform named as Swayam <https://swayam.gov.in/> is being used by **approximately 1 million students** worldwide and programs hosted by all the top Govt. Universities and institutions of India.

Customer Name: Scientific Games

- Have successfully assisted the **largest casino gaming company in migrating** their environment to Azure SQL Database and SQL Server on Azure VM along with **implementing In-Memory OLTP** on their highly transactional casino gaming systems.

Customer Name: Infosys Ltd.

- Have successfully deployed and helped in **designing PowerBI dashboards** and gateways in India's largest IT company's internal IT team and successful companywide adoption. Currently, 1700 PowerBI dashboards are being utilized by almost 5000 employees from Senior and Mid-Senior Leadership employees.

Technical Workshops

- Have delivered several **technical workshops** to the Microsoft Premier customers on SQL Server, Azure SQL DB, Azure SQL VMs, Azure ML, ADLS and ADLA, Stream Analytics and PowerBI.

Core Business Responsibilities:

- Responsible for providing **high class technical delivery experience** to the Microsoft Premier customers on Microsoft Data Platforms exceeding customers satisfaction.
- Assist MS Premier Services in scoping customer requirements and helping them **renewing their contracts through technical acumen** and results driven attitude.
- **Lead readiness efforts** in the DI India team and making sure engineers and consultants are well trained on latest Data Platform technologies.

Readiness

- Successfully completed **MPP program for Data Science** which included highly technical courses on Data Science, ML, R etc.

Contributions to India Data Platform Community

Speaker in Data Platform Summit 2015 and 2017, which is Asia's largest Data Analytics Conference.

Microsoft Corporation – Global Technical Support Center

Period: Dec 2012 – Feb 2016

Role: Sr. Escalation Engineer

Period: Apr 2010 – Dec 2012

Role: Technical Lead

Period: Aug 2006 – Mar 2010

Role: Support Engineer

Product Implemented: SQL Server, SSIS, SSRS and Azure SQL DB

Core Technical Proficiency and Responsibilities:

- Responsible for **delivering and exceeding team level customer satisfaction** targets for Microsoft Premier and Broad Commercial Customers with timely and high-quality incident resolution focusing on root cause analysis, prevention, knowledge transfer and consulting. Have worked extensively on some of the high-profile issues for organizations like banking, telecom, IT services organizations.
- Solid experience in **troubleshooting performance issues** on SQL Server including instance hang, high CPU on the server, query tuning and optimization, stored procedure optimization and other general performance issues like blocking, deadlocking, waits etc.
- **Debugging and troubleshooting** memory dumps that are generated from within SQL Server such as exceptions, access violation, assertion, SQL Server hang dumps and other memory dumps with the help of Windows Debugger Tools.
- Responsible for **delivering trainings** on SQL Server 2012 in India SQL engineers (total 120 engineers) including all frontline engineers, Technical Leads and Escalation Services team members. I was the first one to get trained on SQL Server 2012 in US as a part of the Train the Trainer program before the launch of SQL Server 2012.

Core Business Responsibilities:

- Responsible for providing **assistance to frontline engineers and Technical Leads** on their day to day technical needs - includes case reviews, technical discussions and escalation engagement to provide high quality experience to the Microsoft customers.
- Engagement on **escalated cases with customers** on highly complex cases and handle politically hot or dissatisfied customers.
- **Engagement with SQL Server Product Team** by delivering actionable and data driven feedback through **BUGs, RFC and other tools resulting in improved products and supportability** to the existing products.
- Engagement with SQL Server Product Team on the **new features** being introduced in the next version of the product. Worked on three security related features to be introduced in SQL Server vNext.
- **Coached, mentored and ramped up the several engineers** on best practices for case management, documentation and customer engagement to improve customer satisfaction.

Contributions to India SQL Community

Had complete **business ownership in planning and execution** of Microsoft wide community event – **SQL Talks** – a PAN India level technical show for Microsoft Premier and Broad Commercial customers twice a year to evangelize them with the latest trends and features of SQL Server.

Professional Qualification

B. TECH	Computer Science & Engineering, UP Technical University
MCP	Azure AI Engineer Associate (MCID 6209026)
MCP	Microsoft Azure Specialist - Implementing Microsoft Azure Infrastructure Solutions
MPP	Data Science (edx)
MCITP	SQL Server 2005 and SQL Server 2008

Technical Knowledge of Relevance

Consulting:	Cloud Solution Architecture, Implementation, Consolidation, Capacity Planning and Migration Strategy.
Programming Language:	TSQL, R & Python
Technology & Framework:	Microsoft Azure, Azure ML, Hadoop
Database:	Microsoft SQL Server, Microsoft Azure SQL Database, SQL DW, AAS, CosmosDB
OS & Virtualization:	Microsoft Azure VM, Microsoft Windows, Linux – Ubuntu
Visualization:	SQL Server Reporting Services, PowerBI
Orchestration:	SSIS, Azure Data Factory, Logic Apps, Azure Automation Services
Data Science:	Azure Cognitive Services, HDInsights, Azure Databricks, Azure Machine Learning
Devops:	GIT, Azure Devops

Blogs

<http://www.wizardofdataanalytics.com/>