

# Aditya Rana

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## Education

**Bachelor of Engineering in Computer Engineering, Mumbai**

August 2017 – June 2021

## Technical Skills

**Programming Languages:** SQL, Python (Pandas), HTML5, CSS3, JavaScript | **Database:** MS SQL Server | **Data Engineering:** Azure Data Factory | **Data Visualization:** Tableau | **Analytics Tool:** MS Excel (Macros, VBA) | **Project Management:** Atlassian Jira | **Methodologies:** Agile Development, Scrum | **RPA Tools:** Power Automate Cloud, Automation Anywhere AA360 | **ORM (Object-Relational Mapping):** SQLAlchemy

## Work Experience

**CitiusTech Healthcare Technology Private Limited, Mumbai, India**

July 2021 – July 2023

*Software Engineer*

- Collaborated with cross-functional teams to define project requirements and design scalable data solutions.
- Utilized SQL to develop queries and stored procedures, optimizing database performance and data retrieval.
- Designed and implemented ETL (Extract, Transform, Load) processes using Azure Data Factory to efficiently move and transform data. This included defining data pipelines, creating data sets, and scheduling data workflows.
- Leveraged Azure Data Factory's integration with various data sources and sinks, ensuring seamless data integration across the organization.
- Orchestrated data movement and transformation by creating and configuring linked services, datasets, and data flows within Azure Data Factory.
- Developed and maintained Python scripts for data manipulation, automating routine tasks and improving workflow efficiency.
- Actively participated in Agile and Scrum methodologies, contributing to sprint planning, daily stand-ups, and retrospectives to ensure timely project delivery.
- Employed Jira for task management, issue tracking, and project coordination, enhancing team collaboration and productivity.
- Collaborated with stakeholders to identify and prioritize system enhancements, ensuring alignment with business objectives.
- Achieved Azure Fundamentals AZ-900 certification, demonstrating expertise in Microsoft Azure cloud services.

## Projects:

### **Python SQL Server CRUD Interaction**

Developed a Python project showcasing proficiency in SQL database interaction and data manipulation. Created a custom Python class, `SQLServerDB`, to establish connections with a SQL Server database and perform CRUD operations (Create, Read, Update, Delete) on the "Customers" table. Leveraged the pyodbc library for seamless database connectivity. The project demonstrates hands-on experience in implementing database-driven applications and handling real-world data scenarios using Python.

**Skills Demonstrated:** Python, SQL Server, pyodbc, CRUD Operations, Data Manipulation, Error Handling.

### **Enhanced Swiggy Restaurant Analysis with Data Manipulation**

Executed an extensive data analysis project using Pandas, focused on real-world Swiggy restaurant data from Kaggle. Applied data cleaning, transformation, and analysis techniques to unveil patterns in pricing, ratings, and top-rated restaurants. Proficiently employed Pandas library, showcasing advanced skills in data manipulation, analysis, and automated data saving within Excel.

**Skills Demonstrated:** Pandas, Data Cleaning, Data Transformation, Data Analysis, Automated Data Saving, Excel Integration, Real-world Dataset Utilization.

### **Library Management System**

Description: Implemented a Library Management System in Python, showcasing data modeling and interaction with a Microsoft SQL Server database. The system facilitates management of information about authors, books, and library patrons through a user-friendly command-line interface. Key features include data modeling with SQLAlchemy, support for CRUD operations.

**Skills Demonstrated:** Data modeling with SQLAlchemy, CRUD operations, Error handling, Database interaction, Command-line application development.

## Certifications and Achievements:

- Microsoft Certified: Azure Fundamentals  
Certificate Link: <https://learn.microsoft.com/en-us/users/adityarana-9079/credentials/d4c6d9d5e2e7d047>
- Certificate of Appreciation at CitiusTech Healthcare Technology Private Limited