



Sidra Khan

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Address: Al-Faisal Town, 54810, Lahore, Pakistan (Home)

ABOUT ME

I am **Sidra Khan**, a results-driven Software Engineer with a strong foundation in **data analytics, fintech systems, and business intelligence** using tools like **Power BI** and **Tableau**. My experience across **AI-driven projects, e-commerce analytics, and public data research** has fueled my passion for uncovering insights that drive innovation and strategic decision-making.

Pursuing a **Master's in Data Science** will empower me to deepen my expertise in **machine learning, predictive analytics, and data engineering**, and to leverage these skills in solving complex, real-world problems with data-driven precision and creativity.

STUDIES APPLIED FOR

Master's Degree

WORK EXPERIENCE

 **I2C INC.** – LAHORE, PAKISTAN

Website <https://www.i2cinc.com/>

SOFTWARE ENGINEER – 15/03/2023 – CURRENT

- Designed and optimized fintech data systems managing large-scale transactional data in the ACH domain, ensuring **efficiency, accuracy, and scalability** across complex payment workflows.
- Generated, validated, and analyzed critical **MCP and QMR transaction reports**, maintaining high **data quality, compliance, and performance metrics** for thousands of users.
- Leveraged **SQL, Informix, and Python** to perform advanced **data cleaning, transformation, and statistical analysis**, uncovering actionable insights to enhance system reliability and client satisfaction.
- Built robust **ETL pipelines** to automate data ingestion and transformation, and developed **interactive dashboards in Power BI and Tableau** to visualize key performance indicators and business trends.
- Applied **machine learning techniques** for trend forecasting and anomaly detection in transactional data, improving decision-making and operational efficiency.
- Worked with **cloud-based storage systems (Azure, AWS)** and **big data frameworks** to manage, process, and analyze high-volume datasets efficiently.
- Delivered **custom data-driven solutions** and integrated **REST APIs** to ensure seamless communication between systems, aligning technical implementations with business and client requirements.

 **DEVSINC** – LAHORE, PAKISTAN

Website <https://www.devsinc.com/>

SOFTWARE ENGINEER – 05/12/2022 – 05/02/2023

- Developed backend components for an e-commerce platform using **Ruby on Rails**, implementing core features such as **product management, user authentication, and database integration** to ensure seamless functionality.
- Gained hands-on experience with **Ruby on Rails, MVC architecture, RESTful APIs, PostgreSQL, HTML, CSS, JavaScript, and Git version control**, contributing to full-stack development workflows.
- Designed, implemented, and tested new modules to enhance **system performance, scalability, and user experience**, ensuring efficient and maintainable code.



- Worked in a collaborative team environment, applying **Agile and Scrum methodologies** to manage tasks, conduct code reviews, and improve overall software quality and delivery.
- Utilized **SQL and data modeling techniques** to manage product and user data efficiently, laying the groundwork for integrating analytics and data visualization tools in future enhancements.

 **FAZAIA INTERMEDIATE COLLAGE, LAHORE** – LAHORE, PAKISTAN

SCIENCE TEACHER – 15/11/2020 – 31/03/2023

- Delivered interactive lessons in Mathematics, General Science, and Computer Science, achieving a 90% student satisfaction rate.
- Coordinated extracurricular activities, increasing student engagement and participation.
- Provided counseling to struggling students, resulting in a 15% improvement in academic performance.
- Organized school events and actively contributed to the Personality Grooming Committee.
- Served as Discipline In-charge, ensuring adherence to policies and maintaining order.

● EDUCATION AND TRAINING

26/10/2018 – 03/09/2020 Lahore, Pakistan

M.SC COMPUTER SCIENCE (16 YEARS OF EDUCATION EQUAL TO BACHELORS) University of the Punjab

- Algorithms and Machine learning
- Artificial Intelligence
- Database systems and management
- Software Engineering
- Data Communication and Computer Networks
- Programming Fundamentals
- Discrete Mathematics
- Cloud Computing
- Operating Systems
- Digital Logic Design
- Project Management
- Enterprise Application Development

Address Faculty of Computing and Information Technology, Shahrahe Quaid-e-Azam Allama Iqbal Campus , 84000, Lahore, Pakistan

Website <https://pucit.edu.pk/> | **Field of study** Software and applications development and analysis | **Final grade** 3.32/4 |

Level in EQF EQF level 6 | **Thesis** Online Restaurant Food Ordering Service In Train

09/08/2016 – 02/09/2018 Lahore, Pakistan

BCS (14 YEARS OF EDUCATION) University of Punjab

- **Mathematics:** Includes Calculus I and II
- **Physics:** General principles, including Thermodynamics
- **Information and Communication Technology (ICT)**
- **Visual Basic:** Programming language and development
- **Information Technology:** Fundamentals and applications
- **English:** Language and communication skills

Address 84000, Lahore, Pakistan | **Website** <http://www.pu.edu.pk> |

Field of study Information and Communication Technologies | **Final grade** 1st Division

31/08/2014 – 19/07/2016 Lahore, Pakistan

F.SC PRE-ENGINEERING Fazaia Intermediate College, Lahore Cantt

Field of study Engineering, manufacturing and construction | **Level in EQF** EQF level 4

01/04/2012 – 08/07/2014 Lahore, Pakistan

MATRIC (COMPUTER SCIENCE) Govt Grils High School, Lahore Cantt

Field of study Information and Communication Technologies | **Level in EQF** EQF level 4

CERTIFICATIONS LinkedIn Learning

- Azure Microsoft (In Progress)
- Google Cloud (In Progress)
- Learning Excel: Data Analysis
- The Non-Technical Skills of Effective Data Scientists
- Data Fluency: Exploring and Describing Data
- Learning Data Analytics: 1 Foundation
- Learning Data Analytics Part 2: Extending and Applying Core Knowledge
- Power BI
- SQL for Data Science
- Basic Python Course from NGDB Consultancy
- Learning Data Visualization
- SQL: Data Reporting and Analysis
- Tableau Essential Training
- R Essential Training: Wrangling and Visualizing Data
- Data Cleaning in Python Essential Training
- Predictive Analytics Essential Training: Data Mining
- Data Literacy Exploring and Describing Data

Link <https://www.linkedin.com/feed/update/urn:li:activity:7224641928783421440/>

PROJECTS

Final Year Project "Online Food Ordering System in Train" in Android:

- The purpose of the "Online Restaurant Food Order Service in Train" app was to provide passengers with a convenient way to order food from train station hotels, enhancing service efficiency and expanding food options during travel.

Link https://github.com/Sidra2499/FinalYearProject_Mobile_App.git

PySpark-based Sales Data Analysis project:

- Performed end-to-end sales data analysis using PySpark on Colab, including schema inference, missing value handling, deduplication, and descriptive statistics.
- Validated data types and cleaned 1,000+ records for reliable insights using Spark SQL functions and transformations.

Link https://github.com/Sidra2499/Sale_Data_Analysis/blob/main/SalesData.ipynb

ETL Pipeline for Real Time Data Processing

- An automated ETL pipeline that fetches real-time data from an API and updates Google Sheets at set intervals for trend analysis & decision-making. **Features:**
- 🔄 Real-time data extraction 🔄 Automated Google Sheets updates 🔄 Structured data transformation 🔄 Customizable monitoring intervals

Link https://github.com/Sidra2499/ETL_Pipeline_for_Real_Time_Data_Processing.git

Sale Data Analysis

- Developed a data analytics pipeline to clean, process, and visualize large-scale sales data using Python (Pandas, Matplotlib, Seaborn).
- Performed trend and KPI analysis to identify revenue patterns and customer behavior insights.
- Translated complex datasets into clear, actionable business intelligence through data visualization and statistical analysis.

Link https://github.com/Sidra2499/Sale_Data_Analysis.git



ETL-Pipeline-for-E-Commerce-Data

- Developed an automated **ETL pipeline** using Python (Requests, Pandas, Gspread) and **Google Sheets API** to extract, clean, and store Shopify product data, ensuring seamless data integration and reliability. Proposed enhancements include **Airflow automation**, **SQL warehousing**, and **Grafana dashboards** for real-time analytics.

Link <https://github.com/Sidra2499/ETL-Pipeline-for-E-Commerce-Data.git>

SKILLS

Client Communication | Machine Learning | Data Visualization Tableau (Good Standing) | Data extraction, Data preprocessing, Data visualization, Data cleaning | design principles | Power BI - ETL, Power Query, DAX, Visuals | PHP | Programming Languages - C,C++,Java,HTML and MS SQL server | programming: Python, MATLAB and SQL | API Manual and Automation testing with Postman and Cypress | Python DSci/ML Libraries (Numpy, Pandas, Sklearn, Scipy) | Python | Data Analysis & Data Mining | informix | pySpark | Google Collab | Ticketing Tools (JIRA, SNOW, OTRS, REMEDY)

LANGUAGE SKILLS

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	C1	B2	C1	C1
ITALIAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

06/11/2024 – 06/11/2024

Fire Safety Training at Workplace

Achieved Multiple Scout training and Events Certificates

07/11/2024 – 07/11/2024

CPR and First Aid Training a Workplace

1st Price in White Belt

29/12/2016 – 05/06/2019

Membership of Pakistan Girls Guide Association

04/08/2019 – 04/08/2019

Shinkyokushin Karate Dream Cup 2019

07/07/2017 – 14/07/2017

National Summer Camp for Senior Guides Ghora Gali, Murree

04/04/2014 – 04/04/2014

1st Cash Price in Research work from Children Complex Library, Lahore

CONFERENCES AND SEMINARS

06/01/2023 – 08/01/2023 Lahore

Future Fest



Attended an event where companies from across Asia and the world showcased their products, allowing exploration of various innovations and technologies.

17/07/2022 – 17/07/2022 Fazaia Inter College, Lahore

Management Of Resources Effectively

Presented a classroom presentation on the effective management of resources, demonstrating skills in organizing and utilizing resources efficiently.

● **RECOMMENDATIONS**

Muhammad Usman Senior Manager

Principal Software Consultant and Senior Manager at I2c.

Email musman@i2cinc.com

Hafiz Anzar Ahmad Asst. Professor

Punjab University College of Information Technology

Email anzar@pucit.edu.pk