

# Suranjana Sarkar

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## Professional Summary

Data Quality Engineering Intern with expertise in Python, SQL, and AWS, specializing in data pipelines, data quality validation, governance, Business Intelligence and specializing in data quality, ETL processes and BI solutions using Power BI. Learning about building technical data products that enhance data quality, reliability and scalability. Currently pursuing an MSc in Data Analytics for Business (Graduating April 2026). Expanding expertise in Data analysis and engineering aspects with Python, AWS, DBMS with business understanding. Committed to implement data driven insights and support decision-making and drive operational excellence in innovative data driven environments. Strong interest in Microsoft's Power Platform and collaborative solutions.

## Core Competencies

### TECHNICAL SKILLS:

- Data pipelines (Airflow), AWS (Athena, S3), YAML-based schema enforcement.
- SQL, AWS (Athena, S3), Data Management
- Python, Machine Learning, Microsoft Excel, Microsoft Power BI, Tableau, Microsoft Word, Agile, JIRA.

**SOFT SKILLS:** Problem-Solving | Strong Team Collaboration | Time Management | Communication | Organized | Analytical Thinking | Decision-Making | Attention to detail

## Professional Experience

**Intern – Data Quality Engineer | HILTI France**

**Paris, France | May 2025 to October 2025**

- Collaborating with Hilti's Digital Marketing team to develop Technical Data Product to enhance data quality, creating, managing and controlling data accuracy, ensuring GDPR compliance, and implementing data governance practices, contributing to better customer experience across digital channels.
- Designed and implemented 15+ YAML-based and Python based data contracts, implemented 1000+ data validation rules for a TDP to automate quality checks and enforce schema standards and helped to renew or rewrite TDP if needed while collaborating with other senior data engineers, while aligning with global data governance standards.
- Implemented data quality checks and optimized dynamic queries in AWS Athena to analyze large datasets, identify incompatible data, flag integration issues, and solve them while collaborating with cross-functional teammates to maintain Data quality.

**Senior Software Engineer | Capgemini India**

**Kolkata, India | August 2021 to August 2024**

- Executed 100+ automated API test scripts and designed, updated, and executed 500+ manual, regression and API test cases for **AFLAC**, reducing testing cycle time by 30%, minimizing post-release incidents and improving delivery timelines and system reliability.
- Developed a strong foundation in quality assurance, reproducibility, and standardization practices applicable to data reliability.

## Education

**MSc in Data Analytics for Business [BAC+5]**

**September 2024 to April 2026**

KEDGE Business School, Bordeaux, France

**Winner:** L'Oréal AWS AI Hackathon (March 2025): Created a business solution using AWS, ML, LLM and Basic Prompt Engineering.

**Certificate :** [Microsoft Certified: Azure AI Fundamentals](#) [January 31, 2025] , [Professional Scrum Master](#) [December 17, 2024]

**B. Tech in Electronics Engineering [ECE]**

**July 2017 to May 2021**

University of Engineering and Management, Kolkata, India

- **Project:** Image caption generator using **CNN and LSTM neural networks**.

## Language

**English:** C1 Advanced (IELTS band7) | **French:** Intensive Learning (A1) | **Bengali:** Mother tongue

## Interests

Travel & Cultural Exploration | Reading | Photography