

# Sayantan Mandal

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## SKILLS

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**Hard:** Python, SQL, NoSQL, Spark, Databricks, Azure Data Factory, Azure Data Lake, CI/CD, Docker

**Soft:** Communication, Adaptability, Critical-Thinking, Business Acumen, Leadership, Work ethic

## TECHNICAL PROFICIENCIES

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- 6.9 years of total IT experience
- 4+ years of experience in Azure Databricks, Azure Data Factory, Azure Data Lake and Azure services
- 2+ years of experience in SQL Server
- 6+ years of experience in python programming
- 1 years of experience in Text Analytics and NLP modelling
- 1 year of experience with Docker
- Knowledge on basics of math and probability
- Good understanding and strong knowledge in algorithms and statistics

## WORK EXPERIENCE

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### Material+ (formerly Srijan Technologies) - Senior Data Engineer

Working for client **Mckinsey & Company**, Bangalore

May 2022 – current

Gurgaon

- Worked on SaaS named Periscope, for a \$3M ELT upliftment contract to revamp the whole product.
- The Project provides marketing solutions, Pricing solutions, Sales solutions for various domains like consumer goods, retail, finance, etc by providing insights based on facts which can directly be analysed by CMOs
- Worked on Pricing solutions using python, pyspark, Spark SQL with Azure Databricks and Azure Data Factory to integrate E2E ELT process and ensuring data quality at the same time.
- Majority of our work involves analyses of business requirements and then shaping it in terms of pipelines.
- Automated the testing procedure for CI via developing test cases using NutterTools module for databricks
- Setting up of CI/CD pipeline for various jobs, which includes testing and deployment of code.
- In order to accommodate the clients quickly to solutions we restructured the entire framework in various levels of configuration and allowed the client to make custom changes without altering the base code.

### Aviso AI - Senior Data Engineer

Worked for client **Nestle**, Hyderabad

December 2021 - May 2022

Hyderabad

- Worked on Azure Data Factory, Databricks, Azure Data Lakes, and Azure Synapse Analytics to create reports and data transformation from on premise to cloud.
- Worked on data movement, data transformation and control activities of Azure Data Factory and created pipelines and integrated multiple activities to prepare data to analyze logs, csv files and other data sources to gain insights into customer preferences, demographics, and usage behaviour.
- Integrated the E2E data pipeline from various source systems to target data repositories while also ensuring the quality and consistency of data is maintained at all times.
- Led the team in design the architecture of the theme and split it into features and features into user stories for sprint.

## Capgemini SE - Data Engineer

Worked for client **Stellantis**, France

December 2020 - December 2021

Bangalore

- Created ETL Datalake pipelines, using pyspark for extraction of in-house data.
- Worked on processing of data and delivering of data to azure data lake storage. The sources of data can be REST APIs, DBs, or IOT devices or anything as per the client.
- After Loading used Azure Data Factory and Databricks to load and transform the data into target sources.
- Worked on Dataset creation, Data Pipeline installation and preprocessing of data.
- Supported the client with their business queries related to data.

## Oceaneering International - Software Developer

June 2019 – October 2020

Chandigarh

- Analysis of wire breakage and predicting its break point through the analysis of all the forces acting on the system using scikit learn and pandas module.
- Created pipelines using Databricks for the very unique requirements of the client
- Integrating user-facing elements into applications using Python GUI toolkit PyQt5.
- Developed and implemented an enterprise-level multi-threaded Web application using Python Django for further analysis.

## Ingenuity Gaming Pvt Ltd - Software Developer

May 2018 – June 2019

Noida

- Worked as Backend Developer to write backend game logics and REST APIs of the game.
- Communicating and understanding the logical and statistical data of the game before fabricating the flow chart.
- All projects were managed via Jira Board and Git which was followed by proper DevOps procedure.

## Exicom Power Solutions - Python Developer

September 2016 – May 2018

Gurgaon

- Worked as Junior Engineer to automate the testing procedure of SMPS (Switch Mode Power Supply) loads.
- Developed GUIs in pyQT4 and Visual basic and Python to assist the technician to test the power supply via a computer instead of manual testing.

## PROJECTS

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### Delta Live Tables - Mckinsey & Company

Tech Stack: Spark, Python, SQL, Azure Data Factory

- To eliminate the drawbacks and complexity of Multi Hop architecture. We created Delta Live Tables that not only auto scales but simplifies the pipelines. This simplified and reduced the development cost by 70%.

### Django APIs for Data Processing – Nestle

Tech Stack: Spark, Python, SQL, Azure Data Factory

- In order to simplify the data extraction from Salesforce. We created a Django APIs with Pandas which sanitised the data before entering the DB. This reduced our Data Pre-Processing time by 30%.

### Data Ingestion – Stellantis

Tech Stack: Spark, Python, SQL, Azure Data Factory

- Created custom on-house spark ETL pipeline that transfers data to ADLS via FTP server.

## EDUCATION

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### Sikkim Manipal University - B.Sc., Information Technology

September 2013 - September 2016