

# Kaushil Nagrale

Data Engineer at Cognizant (Position - Programmer Analyst)

Working as Data Engineer, enthusiastic about Data Engineering looking forward to work in this domain

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## WORK EXPERIENCE

### Data Engineer

#### Cognizant

10/2021-Current

##### Achievements/Tasks

- Proficiently developed and customized Azure data pipelines and Spark Notebooks within the Azure Synapse Workspace, adhering to mapping rules and business logic requirements. Utilized Spark SQL and Dataframes for efficient data manipulation.
- Utilized SQL extensively for intricate aggregations, conditional operations, and data transformations through Script activities. Designed Tables, Functions, and Stored Procedures, showcasing performance optimization expertise via strategic Indexes. Proficient in Pgadmin for PostgreSQL and MSSQL for Synapse Tables.
- Adeptly managed diverse data formats including JSON, CSV, XML payloads, as well as more advanced formats such as Avro, Parquet, and Delta Tables.
- Effectively utilized Python in conjunction with Batch accounts to streamline the processes of GPG encryption and decryption for files. Showcased proficiency in utilizing Python for developing functional logic, scripting within notebooks, and enhancing file management through techniques like size-based splitting and compression.
- Demonstrated experience with version control using Git, along with the seamless initiation of CI/CD pipelines to ensure efficient development workflows.
- Utilized YAML files to fine-tune environmental parameters, promoting configurability and adaptability within the projects.

## PROJECT

### Restaurant Recommendation system

- Effectively deployed a Natural Language Processing (NLP) model on Azure using Spark Notebooks, while utilizing Azure App Service for seamless hosting.
- Employed JavaScript for both Frontend and Backend functionalities, Created a pipeline within Azure Synapse Analytics overseeing data processing until end outcomes, exposed by frontend APIs.
- Leveraged MongoDB to store data from the Google API, subsequently processing it via Spark Notebooks (NLP). Implemented an additional API to relay results back to the frontend.
- Skillfully configured identity access management for various services within the Azure environment.
- Achieved valuable recommendations based on user location and reviews, enhancing the model's performance.

### Automated Data Entry Python Bot for Public Works Website Using JavaScript Console

- Recognized a bottleneck issue within a particular data entry process involving manual transfer of Excel data to Webcells.
  - Devised an automated solution using Python's Openpyxl library, effectively eliminating downtime caused by manual typing. This enhancement significantly optimized the workflow efficiency.
- (Details available at <https://github.com/Kaushil7/projects>)

## EDUCATION

### Bachelors in Engineering

#### RVCE Bangalore (CGPA 8.53)

08/2017-08/2021

##### Courses

- Project on Embedded systems- Redundant Alcohol Detection System for Car Interior
- Used Python on FEA data to find the optimal steering shaft diameter
- Introduction to Internet of things- elective

## SKILLS

### Programming & Concepts

Python  
SQL  
Advanced Excel  
JavaScript\*  
C/C++/C#\*  
OOP  
DSA  
ML/AI

### Database

SQL  
PostgreSQL  
MSSQL (T-SQL)  
  
NoSQL  
MongoDB  
Hbase  
  
DBMS

### Cloud

Azure  
Synapse Analytics  
Data Factory  
Datalake  
Notebooks  
SQL Pools  
Spark Pools  
Databricks

### Hadoop Stack

HDFS  
MapReduce  
SQOOP  
Hive  
Hbase  
Apache Spark

## ACHIEVEMENTS

Secured 1st place in Quadrathlon Event Man with a plan design event (2021)

Achieved success in Prodigy organized by NIT Trichy through the creation of a floating waste collector. Demonstrated leadership by assigning tasks and guiding the team effectively.

Achieved the 1st position in the Inter School Volleyball tournament.

Engaged in effective collaboration and provided support to fellow team members. Served as a representative for Karvir taluka in the district-level competition.

## CERTIFICATES

Azure certified Data Engineer - DP 203 (2022)

Hackerrank 5 star Python and SQL (2022)

Deep Learning by Andrew NG (2022)\*

Machine Learning by Andrew NG (2019)

## CO-CURRICULAR

Presented paper at National level on Applications of AI in Mechanical Engineering (2021)

Lead the team for presentation

Did a review paper from over 10 different research papers on relevant topic

TKIT, Warnanagar

Secured 1st place intercollege Chess tournament (2021)

Competed against 30 competitors in a chess match conducted by SIES GST Mumbai

Coordinated Annual College Fest (02/2020 - 03/2020)

Volunteered as part of Disciplinary committee