

# Abhishek Patil

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## SUMMARY:

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- Experience Data Engineer with 5+ years of demonstrated experience in designing and implementing end-to-end optimized data solutions driving impactful outcomes including batch processing as well as live streaming of data.
- Experience in implementing real-time streaming solutions using messaging services like EventHub, RabbitMQ, and Kafka.
- Strong experience with data engineering processes, including data integration, data quality, data governance, data modelling, and real-time and batch ETL/ELT data processing.
- Experience in implementing data science initiatives like sentimental analysis, classification labels, and text translation using Hugging Face AI and OpenAI (GPT) platform and abnormal data detection using Autofocus to solve business problems.
- Experience in the Agile way of working and proficiency with tools like JIRA, Confluence, and Azure DevOps for software deployment lifecycle.
- Hands-on experience in programming languages like Python, Pyspark, SQL, and Shell Script.
- Hands-on experience with Azure Cloud services like Azure Databricks, ADF, Function App, Azure Monitor, Azure AI Service, Azure EventHub, Key Vault, and others.
- Experience in BI and Visualization tools like PLX Dashboard.
- Experience collaborating with product owners and solution architects during SDLC.
- Good technical analytical, debugging, and problem-solving skills.

## WORK EXPERIENCE:

Organization	Role	Duration	Highlights of experience
Atlas Copco	Data Engineer	June,2023 – Till Date	- Implemented end-to-end data solutions to improve the customer experience and optimized the existing data pipelines, being a member of the core data platform team, along with mentoring juniors.
Fractal Analytics (Client -Google)	Data Engineer	April,2022 – June,2023	- Part of a Google Pay Data Engineer team with responsibilities like building pipelines for dashboards for transactions and supporting analysts for query optimizations.
Emerson Innovation Center	Data Engineer	May,2019 – April,2022	- Part of a CoE in the R&D Center with job responsibilities of implementing innovative new POCs around data mainly for sensors.

## KEY ASSIGNMENTS:

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**Project Name:** Real-time integration for the Web Leads.

**Technology Used:** Azure EventHub, Function App, HubSpot, C4C SAP, Application Insights

**Project Description:** This project was about getting the lead data from the different source systems to one place and then, writing it to another source in real-time so that the customer centers can leverage this data for their campaigns.

**Role in the Project:**

- Conducted POCs while implementing and evaluating real-time data streaming options like Azure EventHub, Azure Databricks (Autoloader feature, spark streaming connector, Kafka connector), and Event-based Azure Function App.
- Evaluated both Databricks, and Function App options from cost, scalability, and ease of implementation perspective.
- Designed and implemented a solution using EventHub, Databricks, and Function App to write the data to the marketing leads CDM and to the C4C Source system using API.

**Project Name:** Sentimental Analysis of Customer Survey Data.

**Technology Used:** Azure Databricks, Open-Source Hugging Face Library.

**Project Description:** The project was about doing the sentimental analysis for the customer survey data to increase the overall customer experience and lifecycle.

**Role in the Project:**

- Conducted POCs for approach for implementing the sentimental analysis using options like different open-source libraries, Azure AI service, and others.
- Implemented the text translation, label classification, and sentiment analysis for the customer survey data using transformers (Hugging Face) library.

**Project Name:** Real-time streaming from IoT Devices

**Technology Used:** IoT Hub, IoT Edge, Function App and Postgres.

**Project Description:** The project was about getting real-time data from the critical sensors fitted in the industrial oil pipelines so that we can leverage the data to predict any possible leakage or failures in the system.

**Role in the Project:**

- Research and performance analysis for the different IoT Edge Gateways (Dell, Red Lion, Emerson)
- Created end-to-end data pipeline for Live Streaming of Data from various IoT Devices, configuring them and deploying the module on Azure for Modbus to MQTT protocol conversion if needed and applying transformation and loading the data with the use of Azure Functions, IoT Hub, and Postgres.
- Build to get the transformed data to the Postgres data warehouse with appropriate data preprocessing.

**EDUCATION:**

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- **Post Graduate Diploma in Data Engineering and Cloud Computing** (2022)  
Indian Institute of Technology, Jodhpur, India. (CGPA- 7.39)
- **Bachelor of Technology in Mechanical Engineering** (2014 – 2018)  
Vellore Institute of Technology (VIT) University, Chennai, India. (CGPA of 6.45/10)
- **Higher Senior Secondary** (2011-2013)  
Sri Chaitanya Junior College, Hyderabad, India. (Percentage - 96.60%)
- **Senior Secondary** (2010-2011)  
Shantiniketan English School, Washim, India. (Percentage - 95.82%)

**OTHER ACCOMPLISHMENTS:**

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- Technological Content Writer in Medium.
- Rank in District in HFI Talend Search Examination.
- Head of the Event Management Club in College.
- Represented the District in Fencing.
- Regularly Involved in Blood Donation Activities.