



Aaryan Gupta

Helsinki - FI

Video Intro

www.youtube.com/watch?v=mE4Den2j-bk

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Work Experience: 8+ years

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Industries

Banking & Finance, Insurance

Health Care

Media Telecommunication

Automotive

Methods

DevOps

Agile

Languages

English

Certificates

Azure Data Engineer (DP-203)

Databricks Certified Data Analyst

Education

B.E (E&TC) DR. D.Y Patil School of

PROFILE

Senior Data Engineer with 8 years of experience designing and modernizing large-scale data platforms in banking and enterprise domains. Strong expertise in Python, Snowflake, Databricks, AWS, and Azure, with hands-on experience migrating legacy systems (SQL Server, SSIS) to cloud-native architectures.

Proven track record of building high-performance ETL pipelines, implementing CI/CD and AWS CDK, and enforcing data governance and security standards. Onsite client-facing experience in Europe, working closely with stakeholders to deliver regulatory-compliant, scalable data solutions.

EXPERIENCE

Data Engineer experience

- 8+ years of IT experience specializing in Python-based data solutions, backend development, and cloud data architecture.
- Building scalable backend services, automating infrastructure provisioning, and implementing secure enterprise solutions
- Expertise in designing scalable data pipelines, building RESTful APIs, and automating ETL workflows using Python, PySpark, and Snowflake.
- Onsite client-facing experience in Europe, working closely with stakeholders to deliver regulatory-compliant, scalable data solutions.
- Strong hands-on experience with tools and platforms such as **AWS, Azure, Databricks, Snowflake**, Teradata, Jira, Git, and SharePoint.
- Work experience in multiple different industries, for example, Banking, finance, Insurance, Health care, Automotive Sector, Media and Telecommunication

TECHNOLOGIES

Skills & technologies

- Backend development
- Agile software development
- REST API development
- DevOps
- Programming: **Python** Advanced (OOP, decorators, generators, Flask, Rest API, context managers)
- Database: **Snowflake**, SQL Server, Teradata, DB2
- Spark, Typescript
- Cloud : **AWS**, CDK, (S3 Glue, Lambda, Step machine, Event bridge, Cloud logs)
- DevOps : Git, CICD Pipeline, Bitbucket, Jira, Confluence, VS Code, SourceTree, Sprint Planning, Agile, Git hub
- Unit Testing : Py test, unit test, mocking frameworks, Regression



WORK HISTORY / PROJECTS

[Tata Consultancy Services](#) – Senior Data Engineer (Onsite, Helsinki – **OP Bank**) **Aug 2022 – Present**

- Played a key role in modernizing a legacy banking data platform, migrating from SQL Server + SSIS to a cloud native architecture on AWS and Snowflake, significantly improving data processing performance and scalability.
- Designed and implemented an event-driven data ingestion framework using **AWS S3, Lambda, Glue, Step Functions**, replacing SSIS-based batch workflows and reducing overall pipeline execution time.
- Led the migration of relational data models and business logic from SQL Server to Snowflake, redesigning views, stored procedures, and transformations for optimized performance and maintainability.
- Implemented **Medallion Architecture** (Landing, Staging, Consumption layers) to standardize ingestion and transformation patterns across multiple source .
- Developed Python-based automation scripts to provision AWS resources (Lambda, Glue jobs) and Snowflake objects, reducing manual setup effort.
- Contributed to the design and implementation of **AWS CDK-based CI/CD pipelines, Git branching strategies**, and repository integration with AWS Code Commit, improving deployment consistency and developer productivity
- Implemented security and governance solutions for AWS environments, including **IAM least-privilege access models, bucket policies**, Access Points, managed policies, and vulnerability remediation activities.
- Designed and developed AWS Lambda functions and reusable Lambda Layers using Python, leveraging environment variables, event-driven triggers, structured logging, and monitoring through CloudWatch.
- Currently involved in next-phase platform transformation, planning migration from Snowflake to Databricks and from AWS to Azure, focusing on cost optimization, performance, and future scalability.

[Tata Consultancy Services](#) – Senior Python Developer (**Johnson & Johnson** – Kolkata) **Nov 2020 to July 2022**

- Designed and developed RESTful APIs using Python and Flask to interact with Azure services including Databricks, Cosmos DB, Azure Firewall, and Azure Active Directory.
- Refactored legacy APIs into a modular layered architecture (business, facade, data layers), improving security, maintainability, and ease of enhancements.
- Implemented authentication and authorization workflows using Azure AD, ensuring secure access to enterprise APIs.
- Applied strong Python programming practices to build robust backend logic and handle integrations with cloud-based resources.
- Improved API performance and reliability by optimizing database queries, exception handling, and logging mechanisms.
- Wrote and maintained unit tests and regression test cases, ensuring consistent API behaviour across releases.



WORK HISTORY / PROJECTS

[Tata Consultancy Services](#) – Python Developer ([Transamerica Corporation](#) Kolkata) **Feb 2019 to Oct 2020**

- Translated project requirements into clean, efficient Python code, ensuring accurate implementation of business logic and technical specifications.
- Utilized OOP principles, Pandas, and API integrations to extract and transform data from social media platforms like Facebook, YouTube, and Twitter
- Mentored junior developers and provided guidance on best practices, debugging, and code deployments, improving team efficiency.
- Build an end-to-end data pipeline on AWS, using EC2 and Lambda functions to process CSV files from S3 and load them into Snowflake for further analysis.
- Converted complex mathematical and statistical formulas into optimized Python scripts using Pandas and NumPy, enabling accurate data transformation and modelling.

[Spectrum Consultants India Pvt Ltd](#) – Process Executive ([NVIDIA Graphics](#) Pune) **Oct 2017 to Dec 2018**

- Worked on image processing tasks for Tesla's autonomous driving program, identifying and labelling humans, cars, traffic lights, and road objects using internal tools.
- Supported training data preparation by validating labelled images and ensuring data accuracy before it was used for model and chip training.
- Performed quality checks on datasets and corrected inconsistencies to meet project accuracy standards.

Skills Chart

Skill	***** very strong	**** strong	*** ave- rage	** medi- ocre	* some expe- rience	Years of dedicated work experience	Last time used (m/y)
A/B Testing		X				~ 6 years	07/2026
Agile SW development	X					~ 8 years	07/2026
AI chatbots		X				~ 1 years	07/2026
Airflow			X			~ 2 years	07/2023
Artificial Intelligence					X	~ 0,0 years	m/202y
AWS	X					~ 6 years	07/2026
AWS Lambda	X					~ 7 years	07/2026
AWS S3	X					~ 8 years	07/2026
Apache Spark		X				3 years	07/2026
ASP.NET					X	1 years	07/2026
Azure Cosmos DB					X	1 years	07/2022
Azure Databricks			X			1 years	07/2026
Azure Datafactory					X	1 years	07/2026
Azure Data Lake		X				~ 2 years	07/2026
Azure DevOps		X				~ 3 years	07/2026
Azure IoT Hub			X			1 years	m/202y
Azure Logic Apps			X			~ 0,0 years	m/202y
Azure Spark			X			3 years	m/202y
Azure Stream Analytics		X				~ 2 years	07/2026
Azure Storage			X			~ 1 years	07/2026
Azure SQL			X			4 years	07/2026
Azure Synapse Analytics			X			~ 1 years	07/2026
Bash		X				7 years	07/2026
Business intelligence			X			3 years	07/2026
CI/CD			X			~ 3 years	07/2026
Confluence	X					5 years	07/2026
Copilot Studio			X			~ 2 years	07/2026
C++				X		2 years	07/2020
C#					X	1 years	07/2026
Data Architecture Design		X				5 years	07/2026
Data Engineering	X					~ 7 years	07/2026
Data Integration	X					~ 7 years	07/2026
Data Migration	X					~ 7 years	07/2026
Data Science			X			2 years	07/2022
Data Warehousing		X				~ 5 years	07/2026
Data Visualization			X			2 years	07/2026
Database Administration			X			~ 2 years	07/2026
Databricks			X			~ 2 years	07/2026
DataOps			X			3 years	07/2026
DBT			X			1 years	07/2025
DevOps		X				5 years	07/2026
Docker			X			1 years	07/2026
ETL	X					~ 7 years	07/2026
Generative AI				X		2 years	07/2026
Git		X				~ 0,0 years	07/2026
Google Cloud				X		1 years	07/2022
Infrastructure as code (IaC)		X				3 years	07/2024
Jenkins			X			3 years	07/2022
Jira	X					~5 years	07/2026

JSON	X					~ 0,0 years	07/2026
Linux		X				~ 6 years	07/2026
Machine learning (ML)			X			~ 3 years	07/2026
Microservices		X				~ 3 years	07/2026
Microsoft Power BI			X			2 years	07/2025
Microsoft SQL Server		X				5 years	07/2025
MySQL	X					6 years	07/2026
OLAP		X				4 years	07/2024
PL/SQL	X					6 years	07/2026
Project management			X			~ 0,0 years	m/202y
PySpark		X				3 years	07/2026
Python (programming)	X					7 years	07/2026
REST		X				4 years	07/2024
Serverless computing		X				3 years	07/2026
Scrum Team Member	X					8 years	07/2026
SDK Development			X			3 years	07/2026
Snowflake	X					7 years	07/2026
Solution Architecture			X			~ 0,0 years	m/202y
SQL	X					7 years	07/2026
SSIS			X			2 years	07/2024
SW architecture design		X				~ 0,0 years	m/202y
Terraform			X			2 years	07/2024
Typescript			X			3 years	07/2026
Written and spoken English	X					8 years	07/2026