

# DEVESH RAI

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## WORK EXPERIENCE

### ADF Developer (Data Engineer)

Jul 2025 – Present

Capgemini

Mumbai, India

- Part of the Digitised Line Inspection team supporting the UK railway client Network Rail, working on data pipelines used for rail asset and inspection data.
- Managing and monitoring production Azure Data Factory (ADF) pipelines, performing root-cause analysis on failures, and ensuring reliable daily data movement.
- Developing Databricks notebooks based on user stories to transform and validate inspection data, and collaborating via Azure DevOps for controlled deployments.

## TECHNICAL SKILLS

**Programming Languages:** Python, C#, SQL

**Tools and Technologies:** Azure DevOps, Microsoft Fabric, Databricks, Git, PySpark

**Frameworks and Libraries:** .NET Core, Entity Framework Core, Spark MLlib

**Machine Learning:** Imputation, Encoding, Feature Engineering, AutoML, Model Training, Hyperparameter Tuning, Evaluation, MLflow, MLOps, Unity Catalog

**Databases:** SQL Server, MongoDB

**CS Fundamentals:** System Design, Data Structures and Algorithms, Object-Oriented Programming, Computer Networks, Database Management Systems, Operating Systems, Software Development Life Cycle

## CERTIFICATIONS

**Microsoft Azure Certified:** Azure Fundamentals (AZ-900) | Azure AI Fundamentals (AI-900) | Fabric Data Engineer Associate (DP-700) | Azure Administrator Associate (AZ-104)

**Databricks Certified:** Machine Learning Associate | Data Analyst Associate

**AWS Certified:** Cloud Practitioner | Solutions Architect – Associate (In Progress)

**Snowflake Certified:** SnowPro Core

## PROJECTS

- Football Performance Analytics** | Microsoft Fabric, Databricks, PySpark  
End-to-end analytics project using Microsoft Fabric and Databricks. Processed Kaggle datasets with PySpark, transformed data via Dataflow Gen2 and Notebooks, and built a 4-stage pipeline with Gmail notification.
- Pharmacy Management System** | Angular, .NET Core, SQL Server  
Full-stack Angular 17 + .NET Core app with SQL Server, JWT Auth, and role-based access. Features real-time inventory, order flow, cart, password reset via SMTP, and responsive UI.
- AWS Projects & Demos** | AWS, Lambda, Step Functions, EC2  
A collection of AWS demos (EC2, S3, VPC) including a serverless mini-project, **Pet Cuddle O Tron**, which uses Lambda and Step Functions for workflow orchestration.

## EDUCATION

**Thakur College of Engineering and Technology, Mumbai**

Dec 2021 - Jun 2025

Bachelor of Engineering in Computer Engineering 9.5 CGPA

Mumbai, India

**PACE Junior Science College, Mumbai**

Jun 2020 - Aug 2021

Higher Secondary (12th Grade) - Science 89%

Mumbai, India

## ACHIEVEMENTS & ACTIVITIES

- Co-authored 3 research papers on quantum computing, data privacy in healthcare, and political ethics. Published in IJRPR, IJSRET, and IJNRD (2024). [1] [2] [3]
- Represented Thane district in Maharashtra State Sepaktakraw Championship (2018).
- Runner-up – Grassroots Football Fiesta (2017).
- Won school-level chess tournaments consistently (Grades 5–10).