

# ADITYA VERMA

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## EDUCATION

| Year        | Degree/Exam                                | Institute                        | CGPA/Marks(%) |
|-------------|--|----------------------------------|---------------|
| 2021 - 2025 | B.TECH in Computer Science and Engineering | Graphic Era University, Dehradun | 8.32          |

## EXPERIENCE

**Data Engineer, TCS -Mumbai, MH** November, 2025 - Current

- Engineered and optimized Python & PySpark-based ETL pipelines to modernize RBI's CIMS Data Lake, transforming regulatory reporting from Report-Based>Returns (RBR) to Element-Based>Returns (EBR) and converting financial datasets from XBRL to SDMX format.
- Developed scalable Spark data transformation scripts for large-volume financial data processing, leveraging SQL, Hive, and Impala for complex data extraction, DDL/DML operations, schema design, and performance tuning.
- Implemented data validation, cleansing, normalisation, and mapping logics to ensure regulatory compliance, data integrity, and high-quality standardized reporting outputs.
- Optimized SQL queries and Spark jobs to enhance processing efficiency and reduce execution time across distributed data environments.

## PROJECTS

**WordSphere: A comprehensive blogging application** (Aug, 2024 - Sept, 2024) : [Link](#)

- Built a seamless post creation, editing, and deletion functionalities for an intuitive user experience.
- Added advanced filters that improve user accessibility and content discovery within the application. Moreover, elevated the user's creative experience with a powerful TinyMCE editor for crafting compelling blog content.

**Self-Driving Car Agent** (Sept, 2023 - Dec, 2023) : [Link](#)

- Designed a self-driving car agent using Unity3D's ML-Agents module, focusing on PPO (Proximal Policy Optimization) and SAC (Soft Actor-Critic) models with a decision-making accuracy of 92%.
- Attained an average adaptation time of 3.5 seconds to environmental changes.

**Real-Time Vehicle Tracking System** (Aug, 2023 - Sept, 2023) : [Link](#)

- Engineered a real-time vehicle tracking application leveraging ReactJS and Tailwind CSS and achieved a 98% real-time update accuracy.
- Innovated a comprehensive and user-friendly interface for vehicle location and status monitoring.

## ACHIEVEMENTS

- Graphic Era Coding Competition(ICCC)** - Secured 3rd rank in a coding contest hosted by Graphic Era.
- TechWizard** - Qualified for 2nd round twice for an Inter-University coding contest hosted by Graphic Era University.
- INFathon** - Qualified for Round 2 of a Code-a-thon organized by Informatica.

## SKILLS

|                    |  |
|--------------------|--|
| Technical Skills   | Python, Java, JavaScript, HTML/CSS, C++, AI/ML(GenAI, NLP, LLM, RAG)   |
| Database           | SQL, MongoDB   |
| Tools & Frameworks | ReactJS, ExpressJS, Mongoose, TailwindCSS, Figma, Git, VSCode, Postman |
| Cloud Technologies | Google Cloud Platform  |

## CERTIFICATIONS

- Certified Salesforce Agentblazer Innovator**
- Certified AWS GenAI Practitioner**
- Google Cloud - Introduction to GenAI**
- Google Cloud Computing Foundations: Cloud Computing Fundamentals**
- Networking Fundamentals in Google Cloud**
- Postman API Fundamentals Student Expert**