

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
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- 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**