# Saurav Ghoshal

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## EDUCATION

**Vellore Institute Of Technology** — Bhopal, M.P.
Bachelor of Technology in Computer Science Engineering; **(8.90/10)** — *July 2021-Ongoing*
Specialization: Artificial Intelligence and Machine Learning

**Tagore Academy Public School** — Faridabad, Haryana
Higher Secondary Certificate (HSC); **(87.4%)** — *July 2020*

**Bohra Public School** — Faridabad, Haryana
Secondary School Certificate (SSC); **(90.2%)** — *May 2018*

## SKILLS SUMMARY

*Programming Languages:* C++, Python, SQL
*Databases & Cloud:* MySQL, Snowflake, Amazon Web Services (AWS) – EC2, S3, Lambda, QuickSight, Athena
*Big Data & Streaming:* Apache Kafka, Hadoop, Spark
*Data Analytics & Visualization:* Tableau, Qlik Sense, Power BI, Matplotlib, Seaborn
*Machine Learning & AI:* TensorFlow, Pytorch, Scikit-learn, NLP, Computer Vision (OpenCV, YOLO), Predictive Analytics, Time Series Forecasting
*Data Handling & Processing:* Pandas, NumPy, ETL Pipelines

## EXPERIENCE

**Vision Netsoft Pvt Ltd** — *Nov 2023 - Feb 2024*
*Data Science Intern* — *Faridabad, Haryana*
- Built **interactive dashboards** in Tableau to track service trends and customer behavior, identifying key areas for growth and service improvement while employing statistical analysis **enabling data-driven decision-making**.
- Implemented **predictive analytics models** to forecast customer demand, optimizing resource allocation and enhancing operational efficiency.

## PROJECTS

**Self-Directed Project**
*Cryptocurrency Trade Data Platform* — *September, 2024*
- Developed a platform to **monitor cryptocurrency trade data in real time**, **providing insights** into market trends and enabling **automated trading decisions**.
- Integrated **Apache Kafka and AWS QuickSight** to enable **real-time data streaming, visualization, and predictive analytics**. Utilized AWS Athena for querying large datasets, reducing data retrieval.
- Delivered an **automated trading analytics feature**, **enhancing decision-making** accuracy by **leveraging predictive analytics models** for market forecasts.

**Self-Directed Project**
*Enhanced AI Powered Web Search* — *February ,2024*
- Developed an AI-driven web search system leveraging **SERP API and DeepSeek** API to fetch and analyze search results.
- **Automated PDF and DOCX report** generation from search results using **ReportLab and python-docx**, streamlining information retrieval.
- Optimized API usage with request tracking mechanisms, ensuring **efficient query management** and **API rate-limit adherence**.

## CERTIFICATIONS & ACCOMPLISHMENTS

- *AWS Certified Solution Architect:* Validated **Cloud Architecture and deployment strategies**, showcasing expertise in data streaming, predictive analytics and **scalable cloud integration with AWS services**.
- *Research Collaboration:* Co-authored a research paper titled **"A Study on Machine Learning Techniques for Rainfall Prediction in the Indian Agricultural Landscape."**

## LEADERSHIP & VOLUNTEER EXPERIENCE

*Technical Assistant – D2C Igniters Club, VIT Bhopal* — *June 2023 – May 2024*
- Led **technical presentations & documentation**, supporting advisory meetings that secured **₹100K** in funding.
- Organized **10+ technology events**, including **hackathons & workshops**, impacting **200+ students**.
- Mentored a **20+ member team**, enhancing their technical and problem-solving skills.

*Campus Ambassador – Internshala* — *Aug 2022 – Sep 2022*
Spearheaded **outreach campaigns**, engaging **1,500+ students**, increasing platform registrations by **20%**.