

Ravi Ahuja

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EDUCATION

Scaler

Data Science & Machine Learning

Dec 2022 – Feb 2025

Bengaluru

National Institute of Technology Hamirpur

Bachelor of Technology in Civil Engineering | CGPA - 7.99

July 2015 – June 2019

Hamirpur

EMPLOYMENT HISTORY

Cerebrumx Labs, Gurugram | Associate Data Scientist

Mar 2024 – Present

- Developed an AI-powered RAG-based agentic conversational chatbot using langchain, langgraph, clickhouse, FAISS. it enrolls and onboard one or list of vehicles as per user query also handles complex user queries related to onboarding, eligibility, and status effectively This implementation led to a 15% reduction in turnaround time and a 20% decrease in query-related emails.
- Managed the EV domain within the Data Analytics department, providing insights for 5 clients (OEM) and analyzing data from 250 VINs to enhance operational efficiency.
- Developed algorithms to calculate key EV parameters, including charging location analysis, MPGe (mileage for EVs), and performance comparisons across multiple vehicle classes, road types, and models.
- Implemented advanced clustering and classification techniques (DBSCAN and Random Forest) to identify vehicles for electrification, achieving a 96% accuracy rate and reducing costs by 30%.
- Enhanced safety by predicting collision probabilities and optimizing driver scores for multiple cadences using Generalized Linear Models for detailed performance reporting.
- Improved data processing efficiency by 40% through automated AWS S3 data pipelines integrated seamlessly with MongoDB.

Factacy.ai, Gurugram | Data Analyst Intern

Oct 2023 – Feb 2024

- Enhanced article categorization efficiency by 80% through a machine learning model incorporating algorithms like Decision Tree, SVM etc to reduce the manual checks.
- Processed Generative AI model outputs, implementing data validation and transforming to required formats using Python libraries (NumPy, Pandas, Regex).
- Ensured error-free integration of MCA data into the database with rigorous data validation.
- Developed interactive Tableau dashboard for tracking metrics like Articles rate, model efficiency, and daily counts of pending and processing manual checks
- Processed 50k diverse data records, ensuring data integrity, and executed insertion and updating operations in a Cosmos DB NoSQL database

TECHNICAL SKILLS

Languages: Python (Proficient), SQL (Proficient)

Tools: Git, Bitbucket, Tableau, Power BI, MS Excel, S3, Superset, Snowflake, JIRA, Git, bash Scripting

Libraries: NumPy, Pandas, Matplotlib, Seaborn, SciPy. Stats, Regex

Data Science & Analytics : Gen AI, Langchain, Langchain, MCP, Ai Agents , Machine Learning, Linear Regression, Logistic Regression, K-Means Clustering, Decision Trees, Random Forest, XGBoost, SVM, Deep Learning, Natural Language Processing, Transformers, Computer Vision, Neural Networks, Statistics (Descriptive, Inferential and Hypothesis Testing), A/B Testing, RFM Analysis, Generative AI, Prompt Engineering

Databases: Postgres, MongoDB, clickhouse

PROJECTS

AI-Powered Research Assistant | [link](#)

- Built a GenAI assistant that creates 5+ AI analysts to research, discuss, and generate structured reports using Wikipedia, TavelySearch, LangGraph, langchain framework and OpenAI.

Analyzing Customer Behaviour of E-Commerce Company | [link](#)

- Monitored sales performance across diverse product categories through Tableau Reports, employing techniques such as LODs, filters, joins, and data blending.