Vikas Chauhan

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EDUCATION

Guru Jambheshwar University of Science & Technology, Hisar	Oct. 2020 - Jul. 2022
M.Sc. in Mathematics	*CGPA: 7.67/10*
Guru Jambheshwar University of Science & Technology, Hisar	Jul. 2017 - Oct. 2020
B.Sc. in Mathematics	*CGPA: 7.21/10*

CERTIFICATIONS

Microsoft Certified: Azure Data Scientist Associate	Feb. 2023
Microsoft Certified: Azure Data Fundamentals	Dec. 2022
AWS Certified: Cloud Practitioner	Nov. 2022
Microsoft Certified: Azure Administrator Associate	Oct. 2022
Microsoft Certified: Azure Fundamentals	Aug. 2022

EXPERIENCE

Acadecraft Inc.	Jan. 2024 - Present
Research Associate	
Newbieron Technologies	Sept. 2023 - Oct. 2023
Data Scientist Intern	

SKILLS

Languages:
Python, SQL

Libraries:
NumPy, Pandas, Matplotlib, Scikit-learn, Tensorflow, Keras, nltk, OpenCV, PyTorch, Huggingface, LangChain, Lang-Graph

Cloud:
Azure, AWS, GCP, Streamlit Community Cloud

Tools:
Excel, Power BI, Tableau, Git, Docker, MLflow, DVC

Technologies:
Predictive Modelling, Data Processing, Computer Vision, MLOps, GitHub Actions, Generative AI, RAG, Agentic AI

PROJECTS

Historical Agentic AI   *Agentic AI, Python, LangGraph, Groq, OpenAI*

Provides historical monument insights, verifies users via OTP, and emails personalized recommendations.

- Provides detailed information on historical places using LangChain and web search.
- Ensures secure user verification before sending recommendations via email.
- Uses LangGraph to coordinate specialized agents for search, verification, and email delivery.

AI-Powered Personal Assistant   *Gen AI, Python, LangChain, Ollama, Deepseek*

Uses an LLM to process user prompts and send emails or WhatsApp messages with attachments.

- AI-powered assistant using LangChain and DeepSeek-R1 model.
- Send emails with attachments via Gmail SMTP.
- Send WhatsApp messages with attachments using PyWhatKit.

Vehicle Number Plate Recognition System *Object Detection, OCR, Python, MySQL, BigQuery, DVC*

Identifies vehicles and logs their entry into database

- Developed a database system using MySQL and BigQuery for data storage.
- Trained a YOLOv10 object detection model and integrated EasyOCR for license plate text extraction.
- Built a Flask web app to log vehicle entry times in a database.

Bank Marketing Campaign Machine Learning Project *Classification, Python, Flask, Docker, AWS, GitHub Actions*

Predicting the client will subscribe a term deposit or not

- Performed EDA, data cleaning, and modular coding for efficient data processing and model training.
- Built a Flask web app, dockerized the project, and deployed it on an AWS EC2 instance.
- Implemented a CI/CD pipeline using GitHub Actions for automated updates and maintenance.

Analysis of UEFA Competitions Using SQL *PostgreSQL, Data Analysis*

- Analyzed UEFA competitions using advanced SQL techniques to uncover insights on team performance, player statistics, and attendance trends.
- Explored datasets, execute SQL queries to answer specific questions, and summarize findings through structured reports.
- Included team and stadium statistics, goals and player performance analysis, match attendance insights, and seasonal trends.

FIFA Dataset Visualization Using Tableau *Tableau, Data Analysis*

- Analyzed FIFA 19 data to visualize player and team performance using Tableau.
- Built interactive dashboards with charts, filters, and calculated fields.
- Visualized top clubs, top players, positional analysis, and goalkeeper rankings.

AquaFizz Beverage Startup Excel Project *Excel, Data Analysis*

- Ensured employee compliance, optimize productivity, and analyze sales data for better business insights at AquaFizz.
- Used Excel to track working hours, identify discrepancies, and analyze customer and sales trends with visual dashboards.
- Compliance checks, top customers and cities by sales, beverage profit analysis, and an interactive Excel dashboard.