

# Vikas Chauhan

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## EDUCATION

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

## CERTIFICATIONS

<b>Microsoft Certified: Azure Data Scientist Associate</b>	Feb. 2023 - Feb. 2025
<b>Microsoft Certified: Azure Data Fundamentals</b>	Dec. 2022
<b>AWS Certified: Cloud Practitioner</b>	Nov. 2022 - Nov. 2025
<b>Microsoft Certified: Azure Administrator Associate</b>	Oct. 2022 - Oct. 2024
<b>Microsoft Certified: Azure Fundamentals</b>	Aug. 2022

## EXPERIENCE

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

## PROJECTS

### Vehicle Number Plate Recognition System

*Identifies vehicles and logs their entry into database*

*Object Detection, OCR, Python, MySQL, BigQuery, DVC*

- Created MySQL and BigQuery database.
- Custom training of yolov10 object detection model.
- Implemented EasyOCR to extract text from the number plates.
- Logged the vehicle's entry time in the Vehicle Entry table.
- Created Flask Web App.

### Bank Marketing Campaign Machine Learning Project

*Predicting the client will subscribe a term deposit or not* *Classification, Python, Flask, Docker, AWS, GitHub Actions*

- Conducted EDA and performed data cleaning to prepare the dataset.
- Implemented modular coding for data ingestion, transformation, and model training, enhancing reproducibility and scalability.
- Created a Flask web application to provide a user-friendly interface for model predictions.
- Dockerized the project for portability and consistency across different environments.
- Deployed the Docker image on AWS EC2 instance for production deployment.
- Set up Continuous Integration and Continuous Deployment (CI/CD) pipeline using GitHub Actions for seamless updates and maintenance.

### Diabetes Prediction

*Detecting diabetic and non-diabetic using random forest classifier algorithm* *Classification, Python, Git, Flask, AWS*

- Trained and test multiple algorithms and achieved the precision and recall score of 0.98.
- Created Flask Web App.
- Deployed on AWS EC2 Instance.

### Bengaluru House Price Prediction

*Predicting house price using linear regression algorithm*

*Regression, Python, Power BI, Git*

- Trained and test multiple algorithms and achieved the accuracy score of 0.84.
- Created dashboard using Power BI.

## **ATS Tester LLM Project**

### ***Classifies images as either Cat or Dog***

*Gemini, Python, Git, Streamlit*

- Created Streamlit Web App.

## **Cat Dog Classification**

### ***Classifies images as either Cat or Dog***

*CNN, Python, Git, Flask*

- Created and trained multiple models; achieved the precision and recall score of 0.98 and 0.97 respectively.
- Created Flask Web App.

## **Brain Tumors Classification**

### ***Classifies images as brain tumor type***

*CNN, Python, Git, Flask*

- Created and trained multiple models; achieved the accuracy score of 0.93.
- Created Flask Web App.

## **Fake News Classification**

### ***Predicting whether news article is fake or real***

*NLP, Python, Git, Flask*

- Trained and test multiple algorithms and achieved the precision and recall score of 0.93 and 0.92 respectively.
- Created Flask Web App.

## **Stock Sentiment Analysis**

### ***Predicting whether stock price increase or decrease based on top 25 news headlines***

*NLP, Python, Git*

- Trained using Random Forest Classifier and achieved the precision and recall score of 0.96 and 0.97 respectively.

## **Top 10000 Popular Movie Analysis**

### ***Extracting insights from data and visualization***

*Python, Git*

- Distribution based on Language, Genre, Production Company.
- Popularity over time, Financial trends, genre and language analysis over time.

## **SKILLS**

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### **Languages:**

Python, SQL

### **Libraries:**

NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Keras, nltk, OpenCV

### **Tools:**

Excel, Power BI, Tableau

### **Technologies:**

Git, Linux, Docker, MLOps, MLflow, DVC, GitHub Actions