

## CONTACT

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- Github

## **EDUCATION**

# VIT Bhopal University | Bhopal, India

Bachelor of Technology (B.Tech), Computer Science & Engineering (AI & ML)

- Expected Graduation: May 2027
- Current CGPA: 8.42/10.0

# DAV Public School | Bistupur, India

- CBSE, Higher Secondary (12th Standard) | January 2023 | 86.4%
- CBSE, Secondary (10th Standard) | January 2021 | 95%

#### SKILLS

- Languages: Python, Java,
- Machine Learning/Data
  Science: TensorFlow,
  PyTorch, Scikit-learn,
  Pandas, NumPy, Matplotlib,
  XGBoost
- Web Development: React.js, Node.js, Express.js, HTML, CSS
- Databases: MongoDB, MySQL
- Tools & Platforms: Git, GitHub, IBM Watsonx, Gemini API, OpenCV

# **RITURAJ SINGH**

#### PROFESSIONAL SUMMARY

Analytical and self-driven B.Tech CSE student at VIT Bhopal (CGPA: 8.42), specializing in Al & ML. Skilled in Python, SQL, TensorFlow, and PyTorch, with hands-on experience in predictive modeling, data analysis, and real-world projects like medical imaging, GenAl planner, and vehicle price prediction. Eager to solve complex business problems with data at scale.

#### PROFESSIONAL EXPERIENCE

#### Al Intern

# Intern | TATA STEEL UISL | Jamshedpur, India

May 2025 - June 2025

- Led and completed an internship project to "Detect and Identify Speeding Vehicles," applying technical analysis and problem-solving skills.
- Demonstrated self-motivation and reliability in an independent project setting under the guidance of the HR Learning and Development team.

## **PROJECTS**

# **Al College Companion (Personal Project)**

React.js, Node.js, Express, MongoDB, Gemini API

- Built a full-stack GenAl academic planner that parses PDFs to create personalized study schedules.
- Included features for task tracking, time-slot management, and cloud data storage.

# **COVID-19 Detection & Segmentation**

Chest X-ray Dataset | U-Net, PyTorch, TensorFlow, OpenCV

- Trained a U-Net model to perform semantic segmentation of COVID-19 infections in chest X-rays.
- Achieved 98.97% accuracy and a 0.927 Dice score via an end-to-end image processing and training pipeline.

#### **Used Car Price Predictions**

Kaggle Vehicle Dataset | Linear Regression, Random Forest, XGBoost

- Performed full EDA on used vehicle listings with visualization and business insights
- Built and compared multiple ML models to predict resale price
- Evaluated performance using R<sup>2</sup>, RMSE, MAE; improved accuracy via XGBoost.

## **CERTIFICATIONS & VIRTUAL EXPERIENCES**

- Gen Al using IBM Watsonx | AdroitProlearn (IBM Developer Skills Network) | Issued: June 2025
- Deloitte Australia Data Analytics & Forensic Technology |
   Forage Simulation
- Tata Data Visualisation Virtual Internship | Forage Simulation
- AWS APAC Solutions Architect -Virtual Internship | Forage Simulation