

# GAURAV KUMAR

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## TECHNICAL SKILLS

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**Programming Languages:** C++, HTML,CSS, Python(Intermediate ),JAVA(basics),SQL,JAVA SCRIPT

**AI & Machine Learning:**

- **Libraries & Frameworks:** Scikit-learn, Pandas, NumPy, TensorFlow, Matplotlib, Seaborn
- **Concepts:** Deep Learning, Predictive Modeling, Feature Engineering, Data Preprocessing

**Backend & Databases :** MySQL, MongoDB

**Developer Tools & Web:** Git, GitHub, React.js, HTML, CSS

## PROJECTS

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### HUMAN EYE DISEASE PREDICTION

June 2025 – Aug 2025

Bhopal, MP

Academic Project, VIT Bhopal University

- Engineered a deep learning system using Convolutional Neural Network (CNN) architectures (**MobileNetV3, ResNet50, EfficientNetB0**) for the automated classification of retinal diseases like **Choroidal Neovascularization (CNV)**, **Diabetic Macular Edema (DME)**, and **Drusen** from **Optical Coherence Tomography (OCT)** images.
- Achieved a peak classification **accuracy** of **97.21%** and an **F1-Score** of **0.9722** with the **EfficientNetB0** model , creating a robust tool for early diagnosis that enhances diagnostic speed and improves patient outcomes.

### Big Mart Sales Forecasting

Jan 2025 – Mar 2025

Predictive Analytics Project

- Engineered a data preprocessing pipeline using **Pandas** and **NumPy** to perform data cleaning, implement imputation strategies for missing values, and conduct **feature engineering** with **Scikit-learn's LabelEncoder**.
- Implemented a gradient boosting model using the XGBoost Regressor to predict sales outcomes, validating its performance against unseen data to achieve an **R-squared score of 0.58**.

## EXPERIENCE

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### Virtual AI/ML Intern

Oct 2025 – Present

Infosys Springboard

- ANPR and ATCC for Smart Traffic Management — Developing an automated system that integrates Automatic Number Plate Recognition (ANPR) and Automatic Traffic Count and Classification (ATCC) for intelligent traffic monitoring and control.
- To gain hands-on experience across the full machine learning lifecycle, including data preprocessing, model development, and performance evaluation.
- Will apply modern deep learning frameworks and algorithms to architect and prototype solutions for complex, industry-relevant problem statements.

## EDUCATION

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### VIT Bhopal University

Bhopal, MP

B-TECH in Computer Science

Sep 2023 – May 2027

• Current GPA is **8.47**

## CERTIFICATIONS

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- NPTEL – Machine Learning (IIT course)
- MERN Full Stack Development by Ethnus

## ACHIEVEMENTS

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- **Top 11% Finish in Grab Hackathon:** Advanced to the second round, placing our team among the top 500 out of an initial 4,539 competing teams.
- **NASSCOM Hackathon Finalist:** Qualified for the second round and am currently developing an innovative AI agent to solve the competition's core challenge.
- **Algorithmic Proficiency:** Demonstrated advanced problem-solving skills by successfully solving over 350 Data Structures and Algorithms problems on platforms like LeetCode ,GeeksforGeeks and Codeforces .