

GAURAV KUMAR

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SUMMARY

Machine Learning Engineer specializing in Deep Learning, Computer Vision, and Predictive Analytics. Proven ability to build end-to-end solutions, including a Convolutional Neural Network (CNN) for eye disease classification that achieved 97.21% accuracy and an XGBoost model for sales forecasting. Proficient in the complete ML lifecycle, from data preprocessing and feature engineering to model evaluation. Eager to apply a strong foundation in algorithms to solve complex, industry-relevant problems as an upcoming AI/ML Intern at Infosys.

TECHNICAL SKILLS

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

AI & Machine Learning:

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

Backend & Databases: MySQL, MongoDB

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

PROJECTS

HUMAN EYE DISEASE PREDICTION

June 2025 – Aug 2025

Academic Project, VIT Bhopal University

Bhopal, MP

- 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

Virtual AI/ML Intern

Oct 2025 – Dec 2025 (Upcoming)

Infosys Remote

- 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

VIT Bhopal University

Bhopal, MP

B-TECH in Computer Science

Sep 2023 – May 2027

- Current GPA is **8.38**

CERTIFICATIONS

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

ACHIEVEMENTS

- **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 .