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

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

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
B-TECH in Computer Science
Current GPA is 8.40

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 .