Kushaagra Verma

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Education

VIT Bhopal University **Oct. 2022 – Apr. 2027**
Integrated M.Tech - Artificial Intelligence *Bhopal, Madhya Pradesh*

Shanti Niketan Vidyapeeth **May. 2021 – Apr. 2022**
Senior Secondary *Meerut, Uttar Pradesh*

Experience

AI Intern,Infoaxon Technologies **Oct. 2025 – Dec. 2025**

- **Designed production-ready web scraping pipelines** using **Python, BeautifulSoup, Selenium, and PRAW**, handling **dynamic content, anti-scraping measures, and API rate limits**.
- **Fine-tuned a DistilBERT transformer model** for **insurance text classification** using **HuggingFace and PyTorch**, achieving **89% accuracy** with optimized training and inference performance.
- **Developed an end-to-end NLP pipeline** covering **data acquisition, preprocessing, model training, evaluation**, and **deployment-ready inference APIs**.

Projects

TalentScout – Intelligent Hiring Assistant | *Python, Streamlit, Google Gemini Pro, SQLite, Docker* **September 2025**

- **Reduced interviewer preparation time by 40%** by **auto-generating role-specific question sets and scoring rubrics** integrated into live hiring workflows.
- **Processed over 500 candidate records** with zero data loss and reliable **CSV/JSON export**, enabling faster and more accurate shortlist generation.
- **Achieved median interactive latency below 1.2s** and maintained **99% uptime** through **Streamlit optimization, caching**, and lightweight **SQLite persistence**.

Zomato EDA and Regression Analysis | *Python, Pandas, Matplotlib, Seaborn, Scikit-learn* **July 2025**

- **Conducted** in-depth **EDA** on Zomato's restaurant data to identify factors influencing ratings, cleaning 20+ features including location, cuisines, and cost with **missing and inconsistent values** resolved using mapping and imputation.
- **Engineered** features and trained **XGBoost and Linear Regression models**, achieving an **R^2 score of 86.4%**, enabling robust prediction of restaurant ratings based on food, service, and cost parameters.
- **Tackled multicollinearity** by performing **correlation analysis** and **feature selection**, significantly reducing model complexity while maintaining high prediction accuracy.

Anemia Detection Using Conjunctiva Images | *Python, TensorFlow, Keras, OpenCV, Scikit-learn, XGBoost* **April 2025**

- **Built** a **CNN-based medical image classification pipeline** for **early anemia detection** from conjunctiva images, achieving **94.8% accuracy** and **0.96 F1-score**.
- **Trained and compared five models (CNN, VGG16, ResNet50, XGBoost, Logistic Regression)** using **transfer learning** and **data augmentation** to improve detection robustness on limited datasets.
- **Applied OpenCV preprocessing** (color normalization, feature extraction) and evaluated models using **precision, recall, and ROC-AUC**, identifying **CNN and ResNet50** as top-performing architectures.

Technical Skills

Languages: Python, HTML/CSS, SQL, Java
Developer Tools: Google Colab, VSCode, Git, GitHub
Technologies/Frameworks: Flask, Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn, TensorFlow, OpenCV, NLTK

Leadership / Extracurricular

VIT Bhopal Tech Hackathon **March 2024**
API Developer *VIT Bhopal University*

- Developed backend APIs for an e-commerce platform using the MERN stack.
- Contributed to a collaborative project aimed at streamlining online shopping functionalities.
- Worked in a team to deliver a functional prototype within the hackathon timeframe.