**Harsh Gupta**

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💻 **GitHub:** <https://github.com/4444Harsh>

**Objective**

A motivated **B.Tech 3rd-year student** with a strong foundation in **Python and Java** and expertise in **Machine Learning, Deep Learning, TensorFlow, and NLP**. Experienced in developing ML-based projects and working with **MongoDB** for database management. Skilled in **Data Structures and Algorithms**, with a passion for building innovative AI solutions.

**Education**

🎓 **B.Tech in Computer Science**  
Invertis University (2022-2026)  
📅 **Expected Graduation:** 2026

**Experience**

💼 **Machine Learning Intern**  
📍 RD Infro Technology (2 Months)

* Worked on machine learning projects, improving model accuracy and efficiency.
* Applied **data preprocessing, feature engineering, and model optimization** techniques.
* Developed **ML-based applications**, focusing on real-world problem-solving.

**Skills**

🖥 **Programming Languages:** Python, R, Java  
🤖 **Machine Learning & AI:** Machine Learning, Deep Learning, TensorFlow, NLP  
📊 **Data Structures & Algorithms:** Strong problem-solving and algorithm design skills  
🗄 **Database Management:** MongoDB, MySQL

**Projects**

**Gender Classification App**

* Developed a **machine learning model** for gender classification based on images.
* Used **OpenCV and Flask** for image processing and web deployment.
* Applied **Principal Component Analysis (PCA)** to extract eigenfaces for classification.
* 🔗 **GitHub Repository:** [Gender Classification App](https://github.com/4444Harsh/Gender_app.git)

**Age and Gender Prediction by X-ray Images**

* Built a **deep learning model** to predict **age and gender** from X-ray images.
* Utilized **CNNs** for feature extraction and classification.
* Optimized model performance with **data augmentation and hyperparameter tuning**.
* 🔗 **GitHub Repository:** [X-Ray Image Analysis and Detection](https://github.com/4444Harsh/X-Ray-Image-Analysis-and-Detection.git)

**Number Plate Detection**

* Created a **deep learning model** to detect and extract text from vehicle number plates.
* Trained using **YOLO** for high-accuracy detection and text extraction.
* **Application:** Traffic control, surveillance, and stolen car tracking.
* 🔗 **Code Repository:** [*Number Plate Detection*](https://github.com/4444Harsh/Number-Plate-Detection)

**Light Automation with Mobile Control (IoT-based Project)**

* Developed an **IoT-based system** to control lighting via a mobile device using ESP8266.
* Built a **web interface** for smart lighting control over WiFi.
* 🔗 **Code Repository:** [*Light Automation*](https://github.com/4444Harsh/Light-Automation)

**Certifications & Courses**

📜 [**Python**](https://www.kaggle.com/learn/certification/harshgupta4444/python) *(October 2024)*  
📜 [**Intermediate Machine Learning**](https://www.kaggle.com/learn/certification/harshgupta4444/intermediate-machine-learning) *(September 2024)*  
📜 [**Complete Pandas for Absolute Beginners**](https://www.udemy.com/certificate/UC-0f7a657d-2608-4ea5-9888-1a472fa5d4f9/) *(July 2023)*  
📜 [**Data Cleaning and Preprocessing with Pandas**](https://learn.365datascience.com/certificates/CC-80538A5B4A/) *(November 2024)*  
📜 [**Git and GitHub**](https://learn.365datascience.com/certificates/CC-562DC293A4/) *(November 2024)*

**Hobbies & Interests**

* 🏆 **Kaggle Competitions**
* 🎮 **Online Gaming**

**Declaration**

I hereby declare that the information provided above is true and correct to the best of my knowledge and belief.