ARYAN YADAV

Machine Learning & Computer Vision Engineer

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EDUCATION

B.Tech in Computer Science Engineering
IEC COLLEGE OF ENGINEERING AND TECHNOLOGY
September 2023 – Present Gr. Noida,India

12th standard
Vishnu Bhagwan Public School
2022 – 2023 Prayagraj,India

High School
Vishnu Bhagwan Public School
2020 – 2021 Prayagraj,India

ACHIEVEMENTS

- Internshala Student Partner (ISP) program .

TRAINING/CERTIFICATIONS

Udemy
Complete Machine Learning Course
2025

Google
Gen AI JAM
2024

GDG -Hackerthon
Solution Challenge
2024

EXTRA CURRICULAR

- Chess Player .
- Video Editor.

PROJECTS

Volume Controller by Gesture

- Created an AI-based system to control device volume using hand gestures through computer vision techniques.
- Integrated with system audio APIs to perform dynamic volume control without physical contact.

Sentiment Analysis of Movie Reviews using RNN

- Developed a Movie Review Sentiment Analysis model using RNN in TensorFlow/Keras, implementing text preprocessing with tokenization, padding, embedding layers, and train-test splitting.
- Trained and evaluated the model using accuracy and loss metrics, applied regularization to reduce overfitting, and built an interactive prediction interface for real-time sentiment classification.

Real-Time Object Detection

- Built a real-time object detection system using YOLO and OpenCV to detect multiple objects from live webcam/video streams. Optimized inference for low latency and displayed bounding boxes with class labels and confidence scores.

Spam Mail Classifier

- Built a spam email classifier using Logistic Regression and TF-IDF, achieving 96 percent accuracy on a dataset of 5,500+ emails, evaluated using precision, recall, and F1-score.

Churn Prediction using ANN

- Built an Artificial Neural Network (ANN) model using TensorFlow/Keras to predict customer churn with end-to-end pipeline including data preprocessing, feature encoding, scaling, and model evaluation.
- Implemented hyperparameter tuning and regularization to reduce overfitting, and deployed the model using Streamlit for real-time predictions with an interactive UI.

SKILLS

Languages: Python, Java
Machine Learning : Supervised models, Unsupervised models, Model Evaluation (Accuracy, Precision, Recall, F1)
Deep Learning: ANN, CNN, RNN, TensorFlow, Keras
Computer Vision: OpenCV, MediaPipe, YOLO
NLP: TF-IDF, Text Preprocessing
Tools: Pandas, NumPy, Matplotlib
Deployment: Streamlit, Git, GitHub