Ayush Parwal

 https://www.github.com/Ayushparwal   https://www.linkedin.com/in/ayush-parwal-   ✉ ayushparwal777@gmail.com

Education

Nagarjuna Public School   Mar, 2020
- Class 10th CBSC Board: 86%

Indian Institute of Information Technology, Nagpur   June, 2026
  B Tech Computer Science (7.95 CGPA)
- Specialization: Artificial Intelligence and Machine Learning

Relevant Coursework

Computer Programming (CP), Data structures (DSA), Operating System (OS), Computer Networks (CN), Database Management System (DBMS), Machine Learning (ML), Natural Language Processing (NLP), Deep Learning (DL), Object-Oriented Programming (OOPS), Design Analysis of Algorithms (DAA), Neural Network (NN), Reinforcement Learning (RL).

Technical Skills

Languages: C, C++, Python, JavaScript, HTML/CSS, PHP, Shell Scripting.
Frameworks and Libraries: Flask, Keras, Tensorflow, NLTK, Bootstrap, Seaborn, OpenCV, Pandas, NumPy, Scikit-learn, Matplotlib, ReactJS.
Developer Tools: Git, Github, MySQL, VS Code, Jupyter Notebook, Docker, Power BI, Beautiful Soup.

Projects

Plant Disease Classification / *CNN, Pre-trained Model, Streamlit, Image Processing.* *link*
- Utilized pretrained models like ResNet and Inception, achieving 84.61% accuracy in plant disease classification.
- Integrated with Streamlit for instant disease classification from uploaded leaf images, recognizing 38 classes of plant leaves for effective identification.
- Designed a dynamic and user-friendly web interface using Streamlit, ensuring high performance and data integrity.

Smoke Prediction / *Machine Learning, Xgboost, Classification, Streamlit.* *link*
- Developed and trained an XGBoost model for a smoke-prediction app, achieving a notable accuracy of 87.22% through feature engineering and data preprocessing.
- Optimized the model by refining features, Highest accuracy was 87.946%, placing in the top 23% of participants.
- Built a Streamlit application in Python to display real-time prediction results and model performance.

Speech Emotion Detection / *Python, Streamlit, SpeechRecognition, Deep Learning, LSTM.* *link*
- Designed and implemented a deep learning model using LSTM, achieving an impressive 86% accuracy in detecting and classifying speech emotions from audio inputs.
- Built an interactive web interface with Streamlit, allowing real-time testing of audio files with SpeechRecognition for transcription and analysis, enhancing usability.
- Integrated advanced audio processing techniques such as MFCC feature extraction and transcription capabilities, deploying the complete solution on Render for seamless access and performance.

Relevant Certifications/Positions of Responsibility

C.R.I.S.P.R, IIIT Nagpur / *Executive*   December, 2022 - December, 2023
- Managed a team of 4 to develop and deploy a college resource server, ensuring timely delivery of academic resources to 1000+ students.
- Led workshops, team meetings, and executed technical competitions to boost student engagement, ensuring smooth coordination and overcoming project roadblocks.

Achievements

- Achieved a Rank 1 out of 2684 in Kaggle Competition with a Kaggle Merchandise playground Series - Season 4, Episode 6. link
- Nvidia Certified AI for Anomaly Detection. link
- Solved more than 570+ Coding Problem on Leetcode and Various Coding Platform.
- Ranked 2673 out of 35,000 participants in Leetcode's Weekly Contest 423.
- Data Analytics and Visualization Certified by Accenture. link
- Nvidia Certified Building Transformers-Based NLP applications. link