




Piyush Kumar Pandey

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WORK EXPERIENCE

Amity University, Noida

Undergraduate Student Researcher

June 2024 - July 2024

- Conducted extensive research on deep learning models under the domain of Artificial Intelligence.
- Developed a novel CNN architecture leveraging transfer learning and multi-head attention for the efficient classification of biodegradable and non-biodegradable materials.
- Successfully deployed the model into a real-time Flutter application for practical use.
- Authored a research paper on the project, which was accepted and published by IEEE.

EDUCATION

IMS Engineering College

B. Tech(CSE) - 8.92

2022-2026 - July 2026

Delhi Public School Ghaziabad

Physics, Chemistry, Mathematics, Computer Science - 87

July 2021 - July 2022

St. Joseph's Academy

High School - 97

June 2019 - June 2020

PROJECTS

HerShield

Mar 2024 - December 2024

- Redefining safety for women by unique features.
- Area Profiling: Assigning Safety Index to various localities based on their specific crime rates.
- Bystander's assistance: Engage the local community by allowing nearby individuals to receive notifications about incidents reported nearby, encouraging prompt aid from people in the area.
- Technology Used-Flutter, Dart, Google Maps API, tf lite.

Waste Classifier

June 2024 - July 2024

- Developed a CNN-based deep learning model for the effective classification of biodegradable and non-biodegradable materials.
- Used transfer learning with the MobileNetV2 model and further brought novelty by adding a multi-head attention mechanism and finally deployed the model in a mobile app for real-time use.
- Technology Used-CNN, MobileNetV2, multi-head attention, Kaggle, flutter.

SKILLS

- Programming: Data Structures & Algorithms, OOPS, DBMS, OS, Machine Learning, Deep Learning, Transfer Learning, Web Development, Mobile App Development, Problem-Solving.
- Languages: Java, C, Python, JavaScript, HTML, CSS, MYSQL.
- Frameworks: ReactJS(basic), Flutter(basic), Firebase, Tailwind, Bootstrap 5, Git, GitHub, TensorFlow, Lang Chain, vector database, Hugging Face, Llama.

ACHIEVEMENTS / CERTIFICATIONS

Certificate Of Excellence

Won 1st prize at IEEE Mega Project 7.0 Technical Event hosted by Birla Institute of Technology (BIT), Mesra.

Certificate Of Achievement

Won 2ND prize at Bizthon's IIT Patna Hackmatrix Hackathon 2024.

Certificate Of Appreciation

Earned Certificate of Achievement at Walmart Sparkathon 2024.

Fundamentals of Deep Learning

Earned Nvidia certification on Fundamentals of Deep Learning.

Python programming

Earned IIT Madras Research Park certification in Python programming.