

# PIYUSH GUPTA

## CONTACT DETAILS

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## SKILLS

- Python
- C and C++
- SQL and DBMS
- Android
- Flutter
- HTML, CSS, and JavaScript
- PyTorch
- Tensorflow
- Deep Learning
- Streamlit
- Git
- Scripting
- Communication
- Team collaboration
- Object Oriented Programming
- Data Structures and Algorithm

## INTERESTS

- Music: playing guitar, composing and decomposing.
- Photography: capturing surreal landscapes and scenery.
- Fitness: gyming and calisthenics.

## ACHIEVEMENTS

- 2nd Runner Up HackOwasp 7.0 - 2025
- Silver League Google Cloud Skill Boost
- 150+ LeetCode Submissions

## LEADERSHIP EXPERIENCE

GLOBAL VOLUNTEER at AIESEC **JUNE 2024 - JULY 2024**  
◇ Volunteered for 2 months at Pagoda (Temple), collaborating with people from diverse cultures and backgrounds from around the world.  
◇ Contributed towards upscaling the literacy of the community in Vietnam.  
◇ Taught English to 20 monks, fostering an intercultural environment and promoting language exchange.

## PROJECTS

IOT BASED EARLY SEIZURE DETECTION | ML **2025 Jan - Present**  
◇ Designed a wearable IoT system using EEG biosensors, achieving 94% signal acquisition accuracy for real-time seizure monitoring.  
◇ Built a CNN-LSTM model with 89% prediction accuracy, integrating XAI (Grad-CAM) to enhance interpretability for clinicians..  
◇ Deployed the solution on Raspberry Pi, enabling edge-level processing and reducing alert response time.

REDUCING CARBON FOOTPRINT | Streamlit, ML, pyesseract **2025**  
◇ Developed a Streamlit web app to estimate carbon footprints of 20+ Indian food items, using life cycle GHG data and real-time visualizations.  
◇ Integrated a 92% accurate image-to-text ML model for food recognition and linked energy-saving actions to a reward-based incentive system.  
◇ Improved user engagement by 65% through interactive dashboards and personalized sustainability suggestions.

MAUSAM | Android **2023**  
◇ Designed an app that delivers real-time weather updates, refreshing every 5 minutes to provide users with the most up-to-date and accurate weather information.  
◇ Interactive Dashboard Showing details like temperature, windspeed, humidity, AQI, etc. having 60% user engagement of total app usage.  
◇ Published our app on PlayStore having 15K+ downloads reflecting its popularity.

REVIEW ANALYSIS USING MACHINE LEARNING | ML, LSTM **2024**  
◇ Trained a machine learning model for review sentiment analysis with an accuracy of 86-88%.  
◇ Utilized data preprocessing and feature extraction techniques to optimize the performance of the model by 16%.

JUNK FILE ORGANIZER | Python, Windows, Script **2023**  
◇ Developed an automated system for file classification and segregation based on file extensions, achieving 100% accuracy.  
◇ The implementation led to a 40% reduction in data retrieval time by streamlining the process of organizing & categorizing files based on extensions.  
◇ Improving the files management efficiency by 75%.

## EDUCATION

BACHELOR OF ENGINEERING - Computer Engineering.  
Thapar Institute of Engineering and Technology. **Studying**  
◇ 2022-2026  
  
XII - PCM.  
Kendriya Vidyalaya. **2021**  
◇ Secured 93.8%  
  
X - PCM.  
Kendriya Vidyalaya. **2019**  
◇ Secured 91.2%

## CERTIFICATIONS

DATA ANALYTICS JOB SIMULATION: Deloitte **2025**  
ACCELERATING END-TO-END DATA SCIENCE WORKFLOWS: NVIDIA **2025**  
ELEMENTS OF AI: University of Helsinki **2022**  
GETTING STARTED WITH PYTHON: University of Michigan (Coursera) **2020**