Tushaam Agrawal

Machine Learning & AI Researcher

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Education

B.TECH (HONS.) CSE WITH IOT & IS (Expected 2026)
10th Grade: 77.2%
12th Grade: 82.2%

Technical Skills

Programming Languages: Python, C, SQL

Deep Learning & AI: Neural Networks, Transfer Learning, GANs, Transformers, Computer Vision, Medical Image Analysis

Core Skills: Data Structures & Algorithms, Object-Oriented Program- ming

Projects

Pneumonia Detection from X-Ray Images - Developed a CNN model for pneumonia diagnosis.

Edema Detection in Medical Imaging - Applied deep learning for edema classification.

Desktop Clock with Weather Display - Built a Python-based smart desktop application.

Monkeypox Detection Research Paper - Writing a Scopus-indexed journal on Monkeypox AI detection.

Worked on classification of skin lesion dataset and applied deep learning models such as ResNet50, VGG16, VGG19, LeNet, AlexNet, GoogleNet, ViT, Swin transformer, BVIT, HVT to achieve overall accuracy of 99% for all models with 5 fold cross validation.

Certifications & Achievements

🏆 Participated in Smart India Hackathon 2024 for building a legal data trained chatbot for department of Justice of India's website.

Certifications:

1) Introduction to Python by Coursera project network

2) Supervised Machine Learning: Regression and Classification by Stanford and DeepLearning.AI

3) Exploratory Data Analysis for Machine Learning by IBM

4) SQL: A Practical Introduction for Querying Databases by IBM

5) HTML, CSS, and Javascript for Web Developers by John

Hopkins university

6) Foundations of Secure IoT Architecture by LearnQuest

7) Introduction to Microprocessors by Arm

8) Microcontroller and Industrial Applications by L&T Edutech

9) Fundamentals of Network Communication by University of Colorado

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Interests

AI for Medical Research

Machine Learning and Optimization

Space Tech

IoT-based AI

Deep Learning for Healthcare

Natural Language Processing

Generative AI