Tushaam Agrawal

Student Researcher Coder

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SUMMARY

Extremely enthusiastic student with immense passion for deep learning and AI with constant progression in the domain. I love building and innovating new things that can potentially have a great impact on the society as well as for my career.

SKILLS

Technical Skills

Python programming, Data structures and algorithms, Machine Learning, Deep Learning, Object oriented programming, SQL

Soft Skills

Team Management, Project Management, Strong verbal and written communication, Effective Time and pressure management

Languages Known

English, Hindi

ACADEMIC 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

Skin Lesion Classification

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.

EDUCATION

Manipal University Jaipur

2026 - Current

B.Tech(Honours) - CSE with IoT and IS

CGPA: 8.39

10th Grade CBSE: 77.2%

12th Grade CBSE: 82.2%

COURSES UNDERTAKEN

Introduction to Python

by Coursera project network

Supervised Machine Learning: Regression and Classification

by Stanford and DeepLearning.AI

Exploratory Data Analysis for Machine Learning

by IBM

SQL: A Practical Introduction for Querying Databases

by IBM

HTML, CSS, and javascript for Web Developers

by john Hopkins university

Foundations of Secure IoT Architecture

by LearnQuest

Introduction to Microprocessors

by Arm

Microcontroller and Industrial Applications
by L&T Edutech

Fundamentals of Network Communication
by University of Colorado

Improving Deep Neural Networks:
Hyperparameter Tuning, Regularization and
Optimization by DeepLearning.AI

Cryptography by University of Maryland

INTERESTS

AI for Medical Research

Machine Learning and Optimization

Space Technology and research

Internet of Things and integration with AI for automation

Deep Learning for Healthcare

Natural Language Processing

Generativ AI