



Adarsh Khatri

Roll No.:24MT1102

M.Tech (CSE) with specialization in Data Science
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech	IIIT Una, HP	73.6%	2024-Present
B.Tech	Sanskar College Of Engineering & Technology	82.8%	2022
Senior Secondary	12th Board	80.6%	2018
Secondary	10th Board	77.9%	2016

PROJECTS

- CrimeAware: AI-Powered Video Surveillance** Mar. 2025 - July 2025
Semester-2 / Mini Project-II / Guided by Dr. Shatrughan Modi Github
 - Developed a real-time AI-based surveillance system capable of detecting violent and non-violent activities from video streams.
 - Trained deep learning models using Hybrid CNN + LSTM on the Hockey Fight Dataset and RLVS datasets.
- Deepfake Image Classification** Feb. 2025 - May 2025
Semester-2 / Mini Project-I / Guided by Dr. Shatrughan Modi Github
 - Built a custom Convolutional Neural Network (CNN) from scratch to classify real vs. fake (deepfake) images.
 - Achieved 99.51% test accuracy using the Python (TensorFlow/Keras) implementation.
 - Re-implemented the same CNN model in MATLAB and compared its performance with a transfer learning approach using VGG16.
 - Conducted comparative analysis between custom CNN and VGG16 on parameters such as accuracy, training time, and model complexity.
 - Evaluated platform-wise differences (Python vs. MATLAB) in terms of GPU utilization, flexibility, and ecosystem tools.
- Quantum MNIST Classification with Hybrid Neural Networks** Feb. 2025 - Apr. 2025
Self-Learning / Personal Project Github
 - Built a hybrid quantum-classical model for MNIST using PennyLane & TensorFlow.
 - Integrated a quantum layer with 4 qubits and entanglement layers to enhance feature representation.
 - Trained the model on a reduced dataset and analyzed accuracy improvements over classical models.
- Image-Based Plant Disease Detection Using Deep Learning** Sept. 2024 - Dec. 2024
Semester-1 / Mini Project / Guided by Dr. Vikram Kumar Github
 - Developed a CNN-based model to classify plant diseases from leaf images
 - Used TensorFlow and achieved 97.52% accuracy on the PlantVillage dataset

TECHNICAL SKILLS

- Programming:** C/C++, Python, MATLAB, SQL, Javascript
 - Data Science & ML:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Model Evaluation, Cross-Validation
 - Deep Learning:** TensorFlow, Keras, PyTorch, CNN, RNN
 - Tools & Platform:** Google Colab, Jupyter Notebook, MATLAB, Flask, GitHub, *Power BI, VS Code, Postman
 - Web Development:** HTML, CSS, React.js, Bootstrap
 - Back-End Development:** Node.js, Express.js
 - Soft Skill:** Problem Solving
 - Databases & Cloud:** Firebase, Render
 - Basic Knowledge:** Streamlit, Data Augmentation, Transfer Learning, Learning Rate Scheduling, Early Stopping
- * Elementary Proficiency

KEY COURSES TAKEN

- Computer Science:** Data Structures & Algorithms, Object-Oriented Programming
- Machine Learning & AI:** Machine Learning, Deep Learning, Computer Vision, Natural Language Processing
- Data Science:** Python for Data Science, Introduction to Data Science, Data Visualization, Exploratory Data Analysis