Ishita Tyagi

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Education

IIITDM Jabalpur
Master of Technology (M.Tech), Computer Science   Expected Graduation: 2026

Technical Skills

Programming: C++, Python
Libraries/Frameworks: TensorFlow, PyTorch, OpenCV, Scikit-learn
Specialized Areas: Data Structures, AI/ML, Deep Learning, NLP, Parallel Computing, Performance Optimization, Blockchain
Tools: Git, Docker, Intel VTune Profiler, Arduino

Experience

Teaching Assistant, IIITDM Jabalpur   2024 - Present
- Assisting in coursework, conducting lab sessions, and mentoring students in programming, AI/ML, and system software.

Machine Learning Intern, Internship Studio   Jun 2023 - Jul 2023
- Developed expertise in Python, Matplotlib, and Seaborn while working on neural networks for image processing. - Optimized deep learning models for large-scale datasets.

Projects

Deep Learning-based Image Classification
Developed a CNN model using TensorFlow and Keras to classify images with high accuracy. Optimized performance using GPU acceleration. [Colab Link]

Social Network Analysis (SNA) Project
Developed an AI-driven SNA model to analyze and visualize network connections. Used NLP techniques for key insights. [Colab Link]

Ad View Prediction using ML
Developed a machine learning model to predict ad views based on user demographics and content features. Optimized data preprocessing for large-scale datasets. [GitHub Link]

Blockchain-based Secure Data Transfer
Implemented a blockchain-based smart contract system to ensure secure and tamper-proof data transactions. [GitHub Link]

Leadership Experience

Head of CARE, Innovation@EC   2022 - 2024
- Led a team to organize workshops and events on technology innovation. - Conducted AI/ML and system software optimization sessions for students.

Certifications

- Google Data Analytics Badge – Google [View Certificate]
  -Android Developments – IIT Allahabad [View Certificate]

Hobbies

Singing, Writing Sci-Fi Stories, and AI Research.