ARYAN KUMAR JHA

B.Tech - Energy Sciences & Engineering Student | Programmer | Artist

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PROFESSIONAL SUMMARY

Dedicated B.Tech Energy Sciences and Engineering student at IIT Delhi - Abu Dhabi with 7 years of programming experience. Combines technical expertise in machine learning and data science with creative problem-solving abilities. Passionate about leveraging technology to develop innovative solutions for global challenges, particularly in sustainable energy systems. Proficient in multiple programming languages with a strong foundation in neural networks, computer vision, and data analysis. Aims to create a positive impact on people's lives through experience and skills and help solve global issues like the energy crisis.

EDUCATION

B.Tech - Energy Sciences and Engineering
IIT Delhi - Abu Dhabi Campus | 2024 - Present

Deep Learning Certification
IIT Madras | Completed

Primary Schooling
Teoler High School | 2020 - 2024 | Tenth Grade: 95.8% | Twelfth Grade: 94%

KEY PROJECTS

Project Dia - OMR Answer Sheet Detection
Python, OpenCV2, Pandas | Accuracy: 96.33%

Developed an automated pipeline for reading and detecting answers from scanned images using computer vision and image processing techniques.

Project Transliter - English to Hindi Transliteration
Python, PyTorch, Encoder-Decoder Models | Accuracy: 87.66%

Built a neural network-based transliteration engine using deep learning architectures and Wikidata datasets.

Project Black Eye - Gesture Recognition System
Python, OpenCV2, CNN, PyTorch | Accuracy: 96%

Created a custom gesture recognition system using convolutional neural networks for visual command interpretation.

Project Enervate - Handwritten Arithmetic Solver
Python, MNIST Dataset, CNN | Accuracy: 96-100%

Developed a neural network to recognize handwritten digits and operators, performing real-time arithmetic calculations.

ACHIEVEMENTS

- 7 years of continuous programming experience
- Multiple high-accuracy ML projects (90%+ success rates)
- Self-designed and developed complete portfolio website
- Active GitHub contributor with machine learning projects
- Completed professional deep learning certification

TECHNICAL SKILLS

Programming Languages

Python (Advanced), C++, JavaScript, HTML, CSS

Machine Learning & AI

PyTorch, Neural Networks, Computer Vision, Deep Learning, CNNs, Encoder-Decoder Models

Data Science & Analysis

NumPy, Pandas, Matplotlib, OpenCV2, Data Visualization

Development Tools

Google Colaboratory, GitHub, Version Control

Creative Skills

Traditional Art, Digital Art, Krita, Concept Design

Soft Skills

Problem Solving, Team Leadership, Creative Thinking, Self-directed Learning

INTERESTS & ACTIVITIES

Football

Experienced player since 5th grade, specializing in left-wing and half-back positions. Strong dribbling and tactical skills.

Digital Art

Instagram portfolio showcasing traditional and digital artwork, completed Udemy courses in art techniques.

Learning Philosophy

Self-taught programmer with strong autodidactic approach, primarily learning through online resources and practical application.