Nishant Kumar

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EDUCATION

Kalinga Institute of Industrial Technology, Bhubaneswar 2022 - Present
B. Tech - Computer Science and Engineering **CGPA – 7.82**

Sree Ayyappa Public School, Bokaro 2020 - 2022
Class 12th (PCM) **Percentage - 75.1**

Delhi Public School, Chas, Bokaro 2020
Class 10th **Percentage - 85.4**

PROJECTS

SORTIFY – Web Based Sorting Visualizer Code | Live

- Developed a responsive web app that visualizes sorting algorithms like Bubble Sort and Merge Sort with real-time animation for arrays of up to 50 elements.
- Implemented custom JavaScript logic to handle sorting speed, array size, and live DOM updates with smooth transitions.
- Optimized performance for low-latency rendering and published the project on GitHub Pages.

GREENGLOW – Plant's Guide and Disease Detection Platform Code | Live

- Developed a plant disease detection system in team of two, trained on 87,000+ images using CNNs, achieving 97% accuracy across 38 classes.
- Built a full-stack ML web app integrating Jupyter Notebook for training and Flask + HTML/CSS for interactive predictions and care tips.
- Visualized model metrics and predictions using Matplotlib and deployed the solution via Render.

Twitter Sentiment Analysis – Web Based Tweet's Sentiment Analysis Code | Live

- Collected 10,000+ tweets using Tweepy and analysed sentiments with TextBlob, achieving 87%+ classification accuracy.
- Developed a real-time dashboard in Streamlit, enabling users to fetch and analyse tweets within 2 seconds per request.
- Optimized preprocessing (stop word removal, lemmatization), improving sentiment analysis efficiency by 30%.

KEY SKILLS

- Programming Languages: C/C++, Python, JAVA, JavaScript
- Web Development: HTML, CSS
- Machine Learning:
    - Libraries/Framework: NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow
    - Techniques: Feature Engineering, Convolutional Neural Networks (CNN), OpenCV2, Model Deployment
- Databases: SQL, MySQL
- Developer Tools and Platforms: VS Code, PyCharm, IntelliJ, Git, GitHub
- Concepts: DSA (Data Structures and Algorithms), OOP (Object-Oriented Programming)
- Soft Skills: Leadership, Time Management, Adaptability, Presentation Skills

CERTIFICATIONS AND COURSES

Complete Data Structures and Algorithms in Java Certificate June, 2024
Issuing Organization - Udemy

U Python for Machine Learning (NumPy, Pandas, Matplotlib) Certificate May, 2024
Issuing Organization - Udemy

Ultimate C++ Programming Course: From Novice to Expert Certificate August, 2023
Issuing Organization - Udemy

EXTRA CURRICULAR ACTIVITIES

Artist Team Head at KIIT Art Society 2023 - 2024