

Rishav Jha

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EDUCATION

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- **Kalinga Institute of Industrial Technology**, Bhubaneswar India (2021-2025)
B.Tech(Computer Science and Engineering)
Minor Degree in Financial Economics using Data Analytics
Coursework: Data Structure, Design, and Analysis of Algorithms, Operating System, DBMS

PROJECTS

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- **Advanced Ecommerce Recommendation System | Python, NLP, BoW, TF-IDF, Word2Vec** [Link](#)
 - Engineered a content-based recommendation system with results within 100 milliseconds.
 - Supercharged product recommendations on e-commerce platforms for 1 million products.
 - Attained a remarkable 98% accuracy rate with NLP Models, including Bag of Words and TF-IDF.
 - Seamlessly integrated the Amazon product advertising API for enhanced functionality.
 - **Handwritten Digit Recognition | Python, ML, KNN, AI, Numpy, Tensorflow** [Link](#)
 - Employed KNN algorithm to achieve a recognition accuracy of 95% on handwritten digits.
 - Fine-tuned the ML model to enhance performance, resulting in a 20% accuracy improvement.
 - Implemented K-fold cross-validation, ensuring model robustness and reducing variance by 15%.
 - Employed optimized KNN algorithms, reducing computation time by 25% with high accuracy.
 - Engineered an AI architecture with efficiently processing large datasets with a 30% improvement
 - **Air Quality Prediction | Python, AI, ML, Pandas, Linear Regression, Logistic Regression** [Link](#)
 - Developed a Python-based ML model predicting pollution levels with 90% accuracy.
 - Demonstrated proficiency in Python, ML, specifically Linear Regression, for air quality predictions.
 - Achieved 92% accuracy in predicting air quality index using a Linear Regression model in Python
 - Validated through 90% data analysis, ensuring high-quality input and reliable predictions.
 - Conducted comprehensive data analysis, ensuring a clean dataset with 98% data completeness
 - **Face Recognition System | Python, ML(KNN), OpenCV** [Link](#)
 - Implemented the K-Nearest Neighbor (K-NN) classification algorithm for face recognition.
 - Utilized OpenCV and HaarCascades for precise frontal face detection under 700 milliseconds.
 - Achieved an outstanding error rate below 3% on a dataset comprising 1,000 images.
 - **Invisible Cloak – Real-Time Camouflage System | Python, OpenCV** [Link](#)
 - Engineered a real-time invisibility effect using background subtraction and color detection.
 - Designed a cloak detection system that replaces a specific color with a static background.
 - Achieved seamless real-time performance with efficient OpenCV image processing.
 - Tackled challenges like lighting variation and blending accuracy for live video streams.

PUBLICATIONS AND PRESENTATIONS

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- **R. Jha, M. R. Panda, S. K. C., and A. Dahal, “Deep Learning Architectures for Multimodal Sentiment Analysis,” 2025 International Conference on Intelligent and Cloud Computing (ICoICC), Bhubaneswar, India, May 2–3, 2025. IEEE** [Link](#)
 - **R. Jha, S. K. C., A. Dahal, and M. R. Panda, “Deep Learnings for Financial Sentiment Analysis,” 2025 International Conference on Emerging Systems and Intelligent Computing (ESIC), Bhubaneswar, India, Feb. 8–9, 2025. IEEE** [Link](#)

TECHNICAL SKILLS

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- **Languages:** C++, Python, Java
 - **Web & Backend:** HTML, CSS, JavaScript, MERN Stack, Spring MVC
 - **Database:** MySQL, Postgres
 - **ML & DL:** Scikit-Learn, TensorFlow, Keras, PyTorch, CNN, RNN, Transformers.
 - **NLP & Data Analysis:** NLTK, Hugging Face, Pandas, NumPy, Matplotlib, Seaborn, EDA
 - **Developer Tools:** IntelliJ, VS Code, Git, Eclipse, Jupyter Notebook