Rudra Singha

Dhaltitha, Basirhat – 743 412   rudrasingha009@gmail.com   +91 – 8617535948

Personal Details

- Date of Birth- 08th November, 2004
- Nationality-Indian
- Permanent Address- Dhaltitha, Basirhat, North 24 PGS, West Bengal
- Languages known: English, Hindi, Bengali

Career Objective

I am eager to secure a position that optimizes my skill and abilities, while contributing significantly to the organization's success and expansion.

Education

- B.Tech, Computer Science & Engineering
  2022-26
  Brainware University, CGPA – 9.48/10
- 12th (Senior Secondary Examination)
  2022
  WBCHSE Board, 72%
- 10th (Secondary Examination)
  2020
  WBBSE Board, 74%

Technical Skills

- Programming Languages – C, C++, Python, Java
- Web Technologies – MySQL, HTML, CSS, JavaScript

Academic Projects

- **Sustainable Fertilizer Usage Optimizer for Higher Yield**   **Sep'4, 2024**
- **Hand Written Digit Recognition**
  Developed a high-accuracy handwritten digit classifier using the sklearn digits dataset, applying SVM for image classification. Visualized sample digits, evaluated model performance, and analysed misclassifications to enhance prediction accuracy and interpretability of the model.   **March'16, 2025**

- **Titanic Survival Predictions**
  Built a Titanic survival prediction model using seaborn's Titanic dataset, applying data preprocessing techniques. Trained a Logistic Regression classifier, evaluated performance using accuracy, confusion matrix, and ROC-AUC, and developed a clear evaluation pipeline for model insights.   **April'14, 2025**

- **Daily Social Media Activity Analysis**
  This project applies Logistic Regression to predict social media platform usage by encoding categorical data, scaling features, and modeling user behavior based on demographic and activity inputs.   **May'10, 2025**

Academic Research Paper

- Contribute to the development of a Digital Twin platform for Sustainable Smart Cities, collaborating with cross-functional teams to design and implement data-driven solutions. Utilized expertise in data analytics and visualization to optimize urban planning and infrastructure management.   **Feb'21, 2025**
- AI-powered digital twins integrate patient-specific clinical, molecular, and imaging data to simulate cancer progression and treatment responses. These models enable personalized therapy planning, and adaptive interventions, enhancing precision oncology and improving patient outcomes.   **Mar'25, 2025**
- AI-driven image processing analyzes wave patterns to optimize energy output in wave energy converters, enhancing efficiency and sustainability in marine energy systems through real-time data interpretation and adaptive control strategies.   **April'26, 2025**

Trainings & Workshops

- 5 Days Workshop on Emerging Trends   **Aug'19-23, 2024**
- Intel Industrial Training for 2 weeks   **Feb'3-14, 2025**

Extra-curricular Activities

- Published a conference paper in the American Journal of Advance Computing (AJAC).   **May'10, 2024**
- Gender Equality Unveiling Reality and Dispelling Misconception dated   **Sep'12, 2023**
- Internal Hackathon 2023   **Sep'22, 2023**
- Internal Hackathon 2024   **Sep'4, 2024**
- Volunteer of ICCRET 2025   **Feb'21, 2025**

Hobbies & Interests

- Playing Cricket
- Driving
- Cooking

Signature – Rudra Singha   **Date- 05/16/2025**