Rajarshi Kar

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Education

Kalinga Institute of Industrial Technology — **Bhubaneshwar, Odisha**
Bachelor of Technology in Computer Science Engineering — *Jul. 2023 – Jul. 2027 (CGPA: 8.54)*

Delhi Public School — **Vizag, Andhra Pradesh**
High School Diploma — *Aug. 2011 – May 2023 (Percentage: 95.2%)*

Training and Certification

AWS AI/ML Internship | *AICTE (via KIIT)* — Aug 2024 – Present

- Used AWS AI/ML services like SageMaker, Rekognition, and Lambda to build and optimize ML models. Chosen from 3,000+ applicants.
- Optimized deep learning models for image classification and NLP, reducing inference time by 20%.
- Automated machine learning pipelines using AWS CloudFormation and Step Functions, improving deployment efficiency by 30%.

GeeksForGeeks KIIT Chapter | *DevOps and Cloud Member* — Aug 2024 - Present

- Developed and optimized a CNN-based Brain Tumor Detection model, increasing classification accuracy by 12%.
- Conducted weekly DevOps and cloud computing workshops with 100+ attendees.
- Collaborated with 50+ members on cloud-based projects, improving infrastructure reliability by 15%.

Competitive Programming | *LeetCode, GeeksForGeeks* — 2023 – Present

- Solved 200+ DSA problems, enhancing algorithmic thinking and code optimization.
- Achieved top 20% rank in GeeksForGeeks contests, focusing on dynamic programming and graph algorithms.
- GeeksForGeeks - https://bit.ly/407wcp7 —— LeetCode - https://bit.ly/4a600qY

Projects

Movie Recommendation System | *Python, NLP, Machine Learning* — December 2024

∗ Built a recommendation engine using sentiment analysis, boosting user engagement by 30%.
∗ Processed 20,000+ movie entries, increasing recommendation accuracy by 15% and reducing retrieval time by 25%.
∗ Integrated IMDb API for real-time recommendations, reducing response time by 40%.

Brain Tumor Recognition | *Deep Learning, CNN, TensorFlow* — December 2024

∗ Built a CNN-based brain tumor classifier with 92% accuracy.
∗ Analyzed 10,000+ MRI images, improving model generalization by 18% and reducing overfitting.
∗ Deployed the model using Flask and integrated Grad-CAM for interpretability.

Health Analytics Tool | *Machine Learning, Flask* — January 2025

∗ Created a health risk assessment model using Random Forest, achieving 91% accuracy.
∗ Computed biometric data (BMI, cholesterol, BP), improving health risk evaluation by 20%.
∗ Launched a REST API using Flask, supporting 500+ users.

VPN Server Setup | *AWS, OpenVPN* — June 2024

∗ Configured an OpenVPN server on AWS EC2, ensuring secure authentication for 100+ users.
∗ Implemented logging and monitoring with AWS CloudWatch, improving server tracking and incident response time by 30%.

Technical Skills

Programming Languages: Python, C/C++, Java, Bash/Shell Scripting

Cloud & DevOps: AWS (EC2, S3, Lambda, CloudWatch), Docker, Kubernetes, CI/CD Pipelines

Machine Learning: TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, Matplotlib

Web Development: Flask, FastAPI, HTML/CSS, JavaScript, REST APIs

Tools: Git, Linux, Jupyter Notebook, VS Code, Postman, MySQL, MongoDB

Achievements and Soft Skills

Olympiads and competitive examinations: Qualified for National Science Olympiad twice. Ranked third in district-level International Math Olympiad.

Quiz and Trivia competitions: Won multiple quizzes in inter-school tournaments. Qualified for Hindu Young World Quiz.

Creative Writing: Ranked first in two consecutive years in district Story Writing competition. Won creative writing competitions in multiple languages.

Debate and Anchoring: Won notable debate competitions and hosted multiple events.