Arijit Das

Naihati, North 24 Parganas, WB

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Personal Profile

An enthusiastic fresher, showcasing a strong capacity to learn quickly and adapt to changes like new technologies and methodologies. Always having an aspiration to innovate and contribute towards development of technology.

Education

University of Engineering and Management, Kolkata *West Bengal, India*

Bachelors in Technology, Computer Science *2021 - 2025*

- **CGPA:** 8.221
- Specialised in Artificial Intelligence and Machine Learning

Naihati Narendra Vidya Niketan (H.S.) *West Bengal, India*

Higher Secondary *2019 - 2021*

- **Percentage:** 90.2
- Specialised in Physics, Chemistry, and Maths with Computer Science

Naihati Narendra Vidya Niketan (H.S.) *West Bengal, India*

Secondary *2013 - 2019*

- **Percentage:** 89

Projects

Enhanced AI Framework for Precise Crater Detection and Planetary Surface Analysis *2025*

University of Engineering and Management, Kolkata

- Developed an advanced YOLOv9-based deep learning model for accurate crater detection on Moon, Mars, and Mercury surfaces, achieving 0.9457 precision and 0.9071 recall.
- Implemented custom components such as Enhanced Channel-Aware Attention, Stochastic Transformer, and a hybrid loss function, enabling adaptable, accurate, and efficient detection of planetary craters.
- Deployed an interactive Lunar Crater Detector UI, optimizing inference to 378.4 ms per image.
- **Technical Skills:** Python, Scientific Research Application, Model Enhancement.
- **Soft Skills:** Research and Analytical Thinking, Presentation skills, Teamwork.

Parkinson's Disease Detection Using GAN-DenseNet with Enhanced Explain-ability through XAI Techniques *2024*

University of Engineering and Management, Kolkata

- Developed a deep learning-based diagnostic framework for Parkinson's Disease detection using medical imaging data. The model integrates Generative Adversarial Networks (GANs) for data augmentation and DenseNet-121 for classification, achieving a high accuracy of 98 %. To enhance model transparency, Grad-CAM (an Explainable AI technique) was utilized to visualize critical brain regions influencing the predictions.
- **Technical Skills:** Machine Learning and Deep Learning, Explainable AI (XAI), Python
- **Soft Skills:**Problem Solving, Teamwork, Critical Thinking, Time Management

Programming Language Proficiency

- Python
- Java

Courses and Certifications

- Google Data Analytics (Coursera)
- Python for Data Science, AI & Development, IBM (Coursera)
- Google Cybersecurity (Coursera)

Subject of Interest

- Data Structures and Algorithms
- Machine Learning
- Software Engineering
- Database Management Systems

Other Interests

Cricket	Played a lot of gully cricket with my friends and siblings.
Story Books	Read a wide range of story books, primarily in Bengali, for their rich narratives and cultural depth.
Video Games	I always had the gaming gene. I mostly play on my phone and occasionally on my laptop.

Languages

English	Professional proficiency
Hindi	Professional proficiency
Bengali	Native proficiency