

Atanu Debnath

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Summary

I'm Atanu Debnath, a computer science student interested in AI/ML. My academic journey is focused on understanding how to build intelligent systems that can analyze and interpret data. I'm passionate about applying machine learning and deep learning techniques to solve real-world challenges.

Education

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| University of Kalyani <i>MSc in Computer Science</i> 7.02 CGPA Coursework: Data Analysis, Data Mining, Machine Learning, Deep Learning, Digital Image Processing and Computer Vision | Kalyani, WB 2023–2025 |
| Nabadwip Vidyasagar College <i>BSc in Computer Science</i> 8.64 CGPA Coursework: Data Structures and Algorithms, Object Oriented Programming, Database Management System, Operating System, Computer Networks | Nabadwip, WB 2020–2023 |

Skills

Programming Languages: Python, JavaScript, C++ Java, SQL
Frameworks, Libraries: PyTorch, OpenCV, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Flask, Tkinter, Flutter
Technologies: Deep Learning, Machine Learning, Computer Vision, Git, Linux

Projects

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| Re-Omnitrix - Ben 10 Aliens Classifier Windows App <ul style="list-style-type: none">Developed a Windows application to classify Ben 10 aliens using Deep Learning.Trained a CNN model to classify alien images with high accuracy.Implemented a user-friendly interface with Tkinter.Integrated image loading and prediction functionalities into the application. | Nov 2024 |
| Atanu MIKit - Python Package <ul style="list-style-type: none">Developed a Python package offering utility functions to simplify machine learning workflows.Provides ready-to-use tools for common tasks, improving efficiency and usability.Ensures compatibility with popular ML libraries like PyTorch, and Scikit-learn. | Nov 2024 |
| Face Recognizer Web App <ul style="list-style-type: none">Developed a face recognition web app using FaceNetCreated an interactive Streamlit-based UI that allows users to train and predict faces in real time. | Oct 2024 |
| Cards Classifier Android App <ul style="list-style-type: none">Developed a real-time card classifier android app using YOLO.Built the app with Flutter for android development and smooth UI design. | Oct 2024 |
| Butterfly Segmentation <ul style="list-style-type: none">Developed a Butterfly segmentation model using UNet architecture.Implemented U-Net for precise pixel-wise segmentation, ideal for image segmentation tasks.Implemented a deep learning pipeline with data preprocessing, augmentation, and model evaluation. | Sep 2024 |
| Alzheimer's Disease Classification <ul style="list-style-type: none">Developed an Alzheimer's Disease classification model using CNN.Used medical imaging data (MRI) for training the model to detect Alzheimer's. | Sep 2024 |

Certification

- Getting Started with Deep Learning on **NVIDIA**
- Intro to Machine Learning on **Kaggle**