

Banajit Rajbongshi

M.Sc. in Physics

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🔗 Github Profile

🌐 LinkedIn Profile

🏠 My Website

SUMMARY

Skilled in Python, TensorFlow, and various data analysis libraries. Proven ability to develop innovative solutions through data-driven insights and advanced modeling techniques. Experienced in handling large datasets, conducting detailed data analysis, and generating actionable business intelligence. Excellent problem-solving, research, and collaboration skills. Eager to contribute to dynamic teams and drive impactful projects in a data-centric environment.

TECHNICAL SKILLS

Languages: C/C++ , Python, JavaScript, HTML , CSS

Libraries : Tensorflow , Keras , Numpy, Pandas , Scikit Learn ,Astropy, ReactJs ,Django

Web Dev Tools: Nodejs, VScode, Git, Github

Frameworks: ReactJs, Django , NextJs

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability, analysis report , team recruitment

EDUCATION

- Master of Science in Physics** 2024-2026(*expected*)
Banaras Hindu University , Uttar Pradesh-221005
- Bachelor of Science in Physics And Bachelors of Education** 2019-2023
University of Tezpur , Assam-784028 CGPA: 7.89

PERSONAL PROJECTS

- AI-Powered Snake Game: Machine Learning and Artificial Intelligence Implementation**
This project showcases the development of a classic Snake game powered by machine learning and artificial intelligence
 - Show the prototype of "How Human Brains work" with almost 74% accuracy
 - Used statistical models like Regularisation, Gradient Descent to reduce error and multiply accuracy.
 - Technology Used: R, Python, TensorFlow, Numpy
- Assembling a Radio Telescope and Study its Various Implementation and Applications**
develop a Small-scale amateur Radio Telescope, from an off-set parabolic d2h dish antenna
 - Collect astronomical data with 96% accuracy to detect Moon, Jupiter and other celestial objects.
 - Extensive Data analysis and Error Reduction with statistical model to determine the brightness temperature of sun which was 98% accurate.
 - Technology Used: R, Python ,Numpy , Scikit Learn, Arduino , Keras , astropy

EXPERIENCE

- Collaborator at IASC(international Asteroids Search Collaboration)** October 2013- June 2024
Astronomical data analysis online
 - * In-depth understanding of data analysis, error handling, ability to identify and cleanse data inconsistencies and inaccuracies.
 - * Proficient in python libraries like matplotlib , numpy, scikit-learn.
 - * Strong knowledge of image classification and Convolution Neural Network.
 - * Hands-on experience in Astronomical Physics, Computational Mathematics, Lower Earth Orbit Asteroids and prediction of their path.

PUBLICATIONS

*Real-time Traffic and Traffic Flow Prediction using Machine Learning Algorithm for Optimal Route Planning in Electric Vehicles

- **Published at:** IEEE Xplore
- **Conference:** 2024 Second International Conference on Computational and Characterization Techniques in Engineering Sciences (IC3TES)
- **DOI:** 10.1109/IC3TES62412.2024.10877654

ACHIEVEMENTS

*Detected two undiscovered asteroids at IASC, India

November, 2023

- As a Co-Leader of my team "AstronX", I co-lead my team to analyse and detect two asteroids named as P21L87C , P21L87X which was further sent to NASA for further process of detection and certification.