Dipayan Nandi

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OBJECTIVE

Third-year Computer Science undergraduate seeking internship opportunities in Data Science and Artificial Intelligence to apply analytical and programming skills.

EDUCATION

VIT Chennai — Chennai, Tamil Nadu
Bachelor of Technology in Computer Science and Engineering (CGPA: 7.45) — *2023 – 2027*

EXPERIENCE

ISI IDEAS TIH Autumn Internship — Remote
Research Internship — *Aug. 2025 – Nov. 2025*
- Internship run by the Institute of Data Engineering, Analytics and Science Foundation of ISI
- Worked in a team under Prof. Snehasis Mukherjee on Plantation Monitoring using SAM and Resnet50

Centre for Advanced Data Science — Chennai, TN
Research Internship — *June 2025 – Present*
- Working under the guidance of Dr. Sasithradevi A to build an LLM from scratch
- Focusing on the translation of Bengali poems into English using deep learning architectures

Shell-Edunet Foundation — Remote
Internship — *July 2025 – Aug. 2025*
- Studied green AI principles under Shell and Edunet as part of a technical internship
- Developed and built a project on smart irrigation systems

IBM-Edunet Foundation — Remote
Internship — *June 2025 – July 2025*
- Completed 6-week internship learning basic AI models and web application development
- Built a predictive analytics project focused on Employee Salary Prediction

India Space Academy — Remote
Training-cum-Internship — *June 2025 – July 2025*
- Completed 4-week training under ISA Summer School using tools like astropy and SDSS
- Gained experience handling FITS data and astronomical data processing

PROJECTS

Plantation Monitoring | *SAM, Resnet50, PyTorch* — Aug. 2025 – Nov. 2025
- Implemented a pipeline using Segment Anything Model (SAM) for semantic segmentation
- Utilized a ResNet50 classifier for identifying specific segmented regions in satellite imagery

Cancer Detection Using GANS | *GANs, Deep Learning, Python* — Oct. 2024
- Trained Generative Adversarial Networks to produce synthetic images of multiple cancer types
- Specialized a deep learning model to identify specific cancer types from patient data

2024 Election Results | *Python, Tkinter, Matplotlib* — June 2024
- Developed a GUI-based program to visualize Lok Sabha constituency results
- Displayed top 5 parties via bar graphs and automated winner identification

Simple Gaming Website | *JS, HTML, CSS, API* — Dec. 2023
- Built an arcade website featuring Pong, Snake, and Chess with a 3-day weather report
- Integrated language flashcards for interactive learning

TECHNICAL SKILLS

Languages: C/C++, Java, Python, HTML, CSS, JavaScript, Node, React, R
Libraries: NumPy, Pandas, Matplotlib, Plotly, Seaborn, Scikit-learn, PyTorch
Tools and Soft Skills: Git, GitHub, Linux, Agile project management, Problem-solving

EXTRA-CURRICULAR ACTIVITIES

AI Department Member of HackClub VITC; collaborated on Kaggle competitions since 2024

AI Team member of Nexus VITC and Research Department member of Newton School Coding Club

Active member of the Cultural Department of Bengali Literary Society since 2023