

Deepon Halder

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EDUCATION

Indian Institute of Engineering Science and Technology, Shibpur
BTech in Information Technology — CGPA : 8.91

Kolkata, India
Aug 2023 – July 2027

EXPERIENCE

Research Intern

Jan 2025 - Present

AI4Bharat, IITM

- Working under Dr. Raj Dabre and Dr. Anoop Kunchukuttan

Research Intern

Dec 2024 - Jan 2025

IIT Bhubaneswar

Certificate

- Worked on a Microsoft Academic Project Grant, named **Geospatial Knowledge Inference Using LLMs for Enhanced Travel Decision-Making**, under Dr. Shreya Ghosh and Dr. Abhik Jana

PUBLICATIONS

CycleDistill: Bootstrapping Machine Translation using LLMs with Cyclical Distillation [Link](#)

- Proposed CycleDistill, a bootstrapping method that leverages LLMs and monolingual data to iteratively generate synthetic parallel corpora. [*SELECTED AT COLM 2025*]

RiddleBench: Bootstrapping Machine Translation using LLMs with Cyclical Distillation [Link](#)

- A meticulously curated benchmark of 1,737 challenging puzzles designed to test diverse reasoning skills beyond simple pattern matching.

PROJECTS

Neugrad

[Link](#)

- Built a lightweight autograd engine in Python and NumPy, with tensor operations, automatic differentiation, backpropagation, and a scalable design for deep learning, mimicking PyTorch for education and experimentation.

Solving ML Research Papers

[Link](#)

- Successfully implemented multiple **research papers**, like GPT, LLama, Mistral 7B etc.

AWARDS

Multiple Award-Winning Projects at Hackathons

IIST Shibpur

- Won Cody Challenge** organized by MATLAB; Won **1st Prize** in ML Hackathon at Braindead 2025; Earned **Runners Up** in Institutional Startup Competition for Auto@Kol; **Runners Up** in MCode Metallum 25' ; and **2nd Runners Up** in Hacknovare' Instruo 2025

Qualified KVPY and JBNSTS Scholar

COURSES AND CERTIFICATIONS

Courses Covered in College: Data Structures and Algorithms, DBMS, Digital Logic/ Circuit Design, Theory of Computation, Object Oriented Programming, Computer Architecture and Organization, Probability and Statistics, Linear Algebra, Calculus, Number Theory

SKILLS & INTERESTS

Programming Languages: Python, C, C++, Java, Javascript, MATLAB, VHDL

Machine Learning: Pytorch, Spacy, Stable Baselines 3, Unsloth, OpenCV, Pandas, Numpy, Matplotlib

Additional: HTML, CSS, Mujoco, Gym, MySQL, MongoDB