Shibaditya Deb

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[LinkedIn](#) • [Github](#) • [Codeforces](#) • [Leetcode](#) • [Personal Portfolio](#)

PROFESSIONAL SUMMARY

Sophomore B.Tech AIML student at Newton School of Technology (ADYPU), Pune, skilled in Python, DSA, full-stack development, and building AI/ML models. Experienced in working with AI architectures, including Transformer-based models, for practical and fintech-oriented applications. A published research author in the domain of artificial intelligence and transformer architecture.

EDUCATION

Bachelor of Technology (Computer Science) — 2024 - 2028
Newton School of Technology (ADYPU), Pune — Grade: 8.36/10.0

Intermediate (Class XII) — 2022 - 2024
Indian Convent School,Bundi — Grade: 85.6%

Matriculation (Class X) — 2008 - 2022
Holy Cross School,Agartala — Grade: 95.63%

INTERNSHIPS

City Index Researcher — December 2025 - Present
Happy City Hub — *Remote*

- Contributing to the **Happy City Index 2026** research paper, to be published on **International Happiness Day 2026**.
- Working under **Bartosz Bartoszewicz**, Director of Happy City Hub and Deputy Mayor of Gdynia, Poland.
- Conducting data analysis on global urban well-being, sustainability, and quality-of-life indicators.
- Supporting research methodology, city assessments, and preparation of insights for the final publication.

Software Development Engineer — April 2025 - May 2025
Kiran Foundation — *Remote*

- **Helped in building a mentor–student chat interface** using **React Native** and **Firebase** for real-time communication.
- **Improved UI/UX responsiveness** and implemented key interface refinements across the mobile app.
- **Debugged PR issues**, enhancing overall code quality and app stability.
- **Collaborated with a 5-member team** and participated in code reviews under a senior developer, gaining strong hands-on experience in React Native.

PROJECTS

shibaditya-3B Fine-Tuned LLaMA Model-LLM Fine-Tuning — Unsloth — QLoRA ([Github](#)) ([Demo](#))
November 2025
    Fine-tuned a lightweight 3B LLaMA model optimized for instruction following and reasoning.
    Key Points:

- SFT with Unsloth + QLoRA using FineTome-100k
- Exported PyTorch GGUF versions for local inference
- Included training metrics (loss, gradients, LR schedule)

MindNest - Full Stack — OAuth — WebSockets — MySQL ([Github](#)) ([Demo](#))   October 2025
    Developed backend modules for a student incubation and collaboration platform.
    Key Points:

- Implemented OAuth login and Prisma + MySQL backend
- Built real-time chat notifications using WebSockets
- Improved team formation, idea submission, and mentor interaction flows

Resume Screening System-AI/ML — NLP — Streamlit — scikit-learn (Github) (Demo)   April 2025

    Built an ML-powered resume classifier with automated section extraction.
    Key Points:

- Predicts job domains using TF-IDF + ML classifier
- Extracts Skills
  Experience with Regex + NLTK
- Deployed interactive UI using Streamlit Cloud

Scientific Research Trends Analysis-Data Analytics — Analytics Algorithm — Prediction (Github)   February 2025

    Analyzed research growth, interdisciplinarity, and citation trends and also made prediction using arXiv real data.
    Key Points:

- Identified fastest-growing and stable research domains (AI, Medicine)
- Compared interdisciplinary vs single-domain citation patterns
- Built visual insights using pandas, matplotlib, seaborn

CERTIFICATIONS

Certificate of Review Paper Publication Journal of Emerging Technologies and Innovative Research (ISSN: 2349-5162) (Link)   February 2025

- This paper focuses on the transformer architecture of LLMs and examines its core mechanisms and applications.
- The paper explores the foundations, advancements, and future directions of artificial intelligence.

Certificate of Review Paper Publication nternational Journal of Scientific Research in Engineering and Management (IJSREM) (Link)   October 2021

- Published a research paper in the International Journal of Scientific Research in Engineering and Management (IJSREM) in 2022.
- The paper presents key advancements and future directions in artificial intelligence.

SKILLS

Computer Languages: JavaScript, TypeScript, Python, Machine Learning
Data Tools: Power BI, NumPy, TensorFlow
Software Packages: MongoDB, MySQL, Express JS, Node.js, React, Prisma ORM, Tailwind, Matplotlib, Pandas
Additional Courses: Data Structure
Soft Skills: Critical Thinking, Research, Public speaking
Others: Supabase, Hugging Face, Git and Github

EXTRA-CURRICULAR ACTIVITIES

- **Sponsorship Delegation Lead**, Go For Gold – OCPC Mirror ICPC Elite Camp (India's First), Newton School of Technology
- **Core Committee Member (Sponsorship Team)**, Hashtech Festival – Tekron Fest, Newton School of Technology
- **Volunteer**, Go For Gold – ICPC Style Bootcamp, Newton School of Technology
- **Student Community Representative**, Shiksha.com