

Prottay Kumar Adhikary

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EDUCATION

2023 - Present PhD (*Computer Technology*) at **IIT Delhi, India** (Coursework Ongoing)
2019 - 2023 B. Tech *CSE* at **NIT Silchar, Assam, India** (GPA: 8.32/10.0)

EXPERIENCE

Research Assistant — LCS2, IIT Delhi November 2023 - December 2023

The effectiveness of state-of-the-art *Large Language Models (LLMs)* in selectively summarizing various components of therapy sessions through *aspect-based summarization* was evaluated, aiming to *benchmark their performance* in enhancing mental health counseling.

Machine Learning Intern — CSTAR, IIIT Hyderabad August 2023 - November 2023

Played a pivotal role in advancing research in *different techniques of Quantization for Large Language Models (LLMs)*, employing advanced AI methodologies to *optimize model efficiency* and *deployment feasibility*.

PROJECTS

- **CSE'23: Web-based Distance Learning System** | *HTML, CS, JS*
- **PredHate: Online Sexism Prediction Framework** | *Python, Flask*
- **TRAVID: Face-to-face Video Translation Application** | *Python, Flask, Firebase*
- **Saransa: Summarization & Knowledge Graph Generation Tool** | *Python, Flask, SQL*
- **MenstBot: Menstrual Health Chatbot for Rural Women** | *Chainlit, FAISS, Langchain*

PUBLICATIONS

Adhikary, Prottay Kumar et al. (2023). *TRAVID: An End-to-End Video Translation Framework*. arXiv: [2309.11338](https://arxiv.org/abs/2309.11338) [cs.CL].

Vetagiri, Advaita et al. (2023). "Leveraging GPT-2 for Automated Classification of Online Sexist Content". In: *Working Notes of the Conference and Labs of the Evaluation Forum (CLEF 2023), Thessaloniki, Greece, September 18th to 21st, 2023*. Ed. by Mohammad Aliannejadi et al. Vol. 3497. CEUR Workshop Proceedings. CEUR-WS.org, pp. 1107–1122. URL: <https://ceur-ws.org/Vol-3497/paper-094.pdf>.

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ACHIEVEMENT

- From 2019 to 2023, the MoE offered the **Full-Free Fund SII Scholarship** at NIT Silchar.
- In 2021, the **Lip-Sync Challenge** was organized by IITM & CDA, and **first place was ranked**.
- In 2021, **Incubated Gen2Gen** in the Incubation Programme under Assam Startup

SKILLS

Technologies/Frameworks: TensorFlow, PyTorch, Langchain Git, Flask, Chainlit

LLMs: BERT, GPT, Llama, Gemini/Gemma, Falcon, Mixtral, Phi,

Cloud Services: AzureAI Platform, VartexAI

Programming Languages: Python, C/C++, HTML/CSS/JS, SQL, L^AT_EX, Bash

Natural Languages: Bengali, English, Hind