

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

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

PUBLICATIONS

[AACL] Adhikary, Prottay Kumar et al. (2023). "Travid: An end-to-end video translation framework". In: *arXiv preprint arXiv:2309.11338*.

[JMIR] Adhikary, Prottay Kumar et al. (2024). "Exploring the Efficacy of Large Language Models in Summarizing Mental Health Counseling Sessions: Benchmark Study". In: *JMIR Mental Health* 11, e57306.

See 11+ more publications at:  [Google Scholar](#)

ACHIEVEMENT

- In 2024, Awarded **International Ph.D. Fellowship (IPFP)** at IIT Delhi
- 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, RASA

LLMs: BERT, GPT, LLaMA, Gemini/Gemma, Falcon, Mistral, Phi

Cloud Services: AzureAI Platform, VartexAI, RESTful

Programming Languages: Python, HTML/CSS/JS, SQL, \LaTeX , Bash

Natural Languages: English, Bengali (Native), Hindi (Conversational)