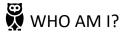
SHILADITYA SARKAR

Post Graduate Research Scholar



I am a mathematics enthusiast, with an unbound interest in Large Language Models - their applications, loopholes and security. I open source my findings and explain concepts here: https://medium.com/@writetoshiladitya



Chatbot Developer

Center for Digital Innovation, Christ University. 04/2024 - present

- Technical lead of the team behind EsPro – Christ's first multi-modal, multi-purpose chatbot.

Robotics and Automation Instructor

Openhouse, Kolkata. 01/2023 - 06/2023

- Teaching fundamentals of Coding, Mechanics, and Electricity.
- Specializing in the development of Automated Machines.
- Youngest Manager of the entire Robotics Course, Theatre Road main branch.

International Coding Instructor

CampK12, California (Remote). 06/2022 - 06/2023

- **Training** senior grade students from the **UK and US in Computer Science**.
- Specializing in Artificial Intelligence, Machine Learning, Game Development, and Web Design.
- Youngest Employee awarded with Certificate of Excellence (5/5 stars) for training new faculties and achieving the highest customer conversion rate consistently.

Research Fellow

Indian Institute of Technology (IIT), Bombay. 11/2021 - 07/2022

- **Head of the team** and **lead contributor** towards the creation and deployment of the age-appropriate and thematic blueprint of model **BloomScope**.

MOST RECENT PROJECTS

ChatEXCEL 05/2024

Chat with your excel/csv/json files with ease in Natural Language or Voice commands.

 Powered by Google Gemini Pro and Langchain, now create, manage, and talk to databases just by text or voice commands.

Preach 03/2024

Generate PPTs from Multimodal Inputs (any Video, Audio or Text).

 Awarded First position and 350 USD prize money in Intel OneAPI Hackathon 2024 (Generative AI) for project Preach.

MysticML 01/2024

Python library that automates data preprocessing pipeline for downstream tasks.

- Author and manager of Python library mysticML.
- Provides the most advanced preprocessing not provided by any other library.



Getting started with Large Language Models (LLMs) – Skillsoft.

Introduction to **Statistics** – Stanford University.

Natural Language Processing for Developers – Infosys.

Introduction to **Programming** – University of Edinburgh.

- Awarded Gold Badge in HackerRank's 30 Days of Code challenge.
- Secured 100/100 in Computer Science, ICSE 2018.
- Secured All India Rank 219 by clearing SSB interview after passing NDA.



MSc. Artificial Intelligence and Machine Learning, Christ University 07/2023 - 04/2025 *Bengaluru, Karnataka.*

- First in class with a CGPA of 3.98 out of 4.
- **Elected** as the **Editor** followed by **Chief Editor** (current) of Computer Science magazine Infobahn.
- Automated attrition insights for Christ University Employee records (all campuses) 2020-24.
- Developed an Inter-document Plagiarism checker that beats online plagiarism checkers.
- Developed a technique to get spam score and beat spam filters by automatic intelligent suggestions to send mass mails for Christ University.
- **Single-handedly developed a model** for the **Department of Psychology** to **automatically identify** which interviewees **actually** know about AI as opposed to what they say.

BSc. Computer Science, St. Xavier's College (Autonomous) 01/2021 - 06/2023 *Kolkata, West Bengal.*

- **First to solve the NP-complete Independent Set problem**. Proof was selected and published in the college faculty magazine.
- Published article the Mathematics behind Behavioral Psychology, at Annual Science Magazine Xavier's.
- Developed a novel algorithm for the quickest Raster to Vector data conversion without the requirement of any thinning.
- Discovered a unique state for Conway's Game of Life selected and published at the Annual Technical magazine X-Cryptus 2022.
- Proved the Four Color Theorem from Graph Theory.
- Elected as the Lead of Systems for the Annual Technical Fest of St. Xavier's 2022.
- **Elected** as the **Editor** of the magazine of the Department of Computer Science 2022.
- Elected to Class Coordinator 2021-22.

Ç■LANGUAGES KNOWN

ENGLISH - Native, C2 (IELTS 8.5 certified).

GERMAN - Intermediate (Goethe Zertifikat).

HINDI, BENGALI - Native.