

# SHILADITYA SARKAR

Post Graduate Research Scholar

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## WHO AM I?

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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>



## EXPERIENCE

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### 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

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### ChatEXCEL present

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.

### LayerFX 12/2023

Fastest Image Steganography using Java.

- **Novel image encryption technique** used to create **adversaries for neural networks** as part of my research.

## CERTIFICATES & ACHIEVEMENTS

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certified

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.

## EDUCATION

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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.

## LANGUAGES KNOWN

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**ENGLISH** – Native, C2 (IELTS 8.5 certified).

**GERMAN** – Intermediate (Goethe Zertifikat).

**HINDI, BENGALI** – Native.