

# Suvasish Das

Research Scholar at Indian Institute of Technology, Bombay

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## Projects

**Jailbreaking and Redteaming DeepSeek Models** (CS6103 Spring'2025, Course Project) May 2025

- Study adversarial attacks based on prompt injection to break the safeguard of DeepSeek models.
- Compared our implementations with the current available benchmarks.

**Bengali Spelling Correction using Noisy Channel Approach** [Code] [Report] Jun 2024

- A web-based application to rectify Bengali spelling errors by using Bayesian Inference.
- Implemented beam-search on top of the noisy-channel to improve overall language model accuracy.
- Collected diverse handwritten texts from college students for real-time evaluation.

**Facility Detection and Popularity Assessment** [Code] [Slides] Mar 2023

- Facility detection from large-scale text classification of social media and crowdsourced data.
- Achieve accuracy of 91% using Support Vector Machines and 85% using Naive Bayes.
- Scrape Twitter for a particular timeline with target facility type, used to determine the truthiness of the tweet.

**Non-adaptive Image Encryption based on Chaos** [Code] [Report] Jul 2022

- Implemented an image encryption method based on non-adaptiveness chaos.
- Reduced noise up to 80% created by public channels and retrieved encrypted images at the receivers end.

**A full featured Technical Blog Website using Python-Flask** [Code] 2021

**Android based Covid-19 Vaccine Notifier Application** [Code] 2020

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## Skills

**Languages:** Python (8000+ lines), C/C++, HTML/CSS, Java, JavaScript,  $\LaTeX$ , SQL

**Library & Tools:** Pytorch, Tensorflow, NLTK, Pandas, Numpy, Keras, Flask, Git, Jekyll

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## Experience

**Teaching Assistantship in CS101 (Fall, 2025), IIT Bombay**

*Assisted a team of 30 students, including weekly one-to-one doubt-solving sessions*

**Mumbai, India**

*Jul 2025 - ongoing*

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## Education

**Indian Institute of Technology, Bombay**

*PhD in Intelligent Systems (IS1)*

**Mumbai, India**

*Jan 2025 - ongoing*

**West Bengal State University**

*M.Sc (Hons) in Computer Science (CGPA: 9.78/10)*

*Secure 1st position in the department and its affiliated colleges - [Certificate]*

**West Bengal, India**

*Jul 2022 - Jul 2024*

**Barrackpore Rastraguru Surendranath College**

*B.Sc (Hons) in Computer Science (CGPA: 9.51/10)*

**West Bengal, India**

*Jul 2019 - Jul 2022*

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## Fellowships / Achievements

**INSPIRE Fellowship** awarded by Department of Science and Technology, Govt. of India

*Jun 2025*

**Institute Teaching Assistantship** awarded by Indian Institute of Technology, Bombay

*Jan 2025*