

# SHUBHARUP GANGULY

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## Education

**Indian Institute of Technology, Madras** 2024

*Diploma in Data Science*

Mathematics, Statistics, ML theory, scikit-learn and Business Analytics.

**Indian Institute of Technology, Madras** 2024

*Diploma in Programming*

Python, SQL, Javascript, Java and Bash.

**Jadavpur University** 2022

*Master of Arts in Linguistics*

- Graduated with First Class and 9.35 GPA.
- Awarded A+ (highest possible) for research thesis.

**Ramakrishna Mission Residential College (Autonomous)** 2019

*Bachelor of Science in Economics*

- Extra-curriculars: Silver medal in 400 metre sprint.

## Work Experience

**Indian Institute of Technology, Kharagpur** Jun 2023 – Aug 2023

*Summer Intern*

A research-focus internship. My work centered on collecting inputs for a linguistically informed pre-training objective, for Sanskrit LLMs.

Certificate of Internship

## Teaching

**Teaching Assistant** May 2024 - Aug 2024

*BS in Data Science, IIT Madras*

Teaching Assistant in the course 'Machine Learning Techniques'.

Acknowledgement (2024 T2)

**Teaching Assistant** Oct 2023 - Apr 2024

*BS in Data Science, IIT Madras*

Teaching Assistant for the course 'Machine Learning Foundations'. Curriculum consists of essential topics in linear algebra, optimization, and probability theory.

Acknowledgement (2023 T3) Acknowledgement (2024 T1)

**Academic Mentor** Sep 2023

*BS in Data Science, IIT Madras*

Academic mentor for the course Programming in Python to a cohort of 10 students.

- Guided students and debugged their code for the day's programming challenges set by the course team.
- Hands-on mentoring for problem-solving and programming in Python, every day for three weeks.

## Tools and Technologies

**Programming Languages:** Python, SQL

**Analytics:** BeautifulSoup, Scrapy, Tabula, NumPy, pandas, OpenRefine, Trifacta, scikit-learn, PyCaret, Pytorch, spaCy, Geopandas, Matplotlib, Plotly, Looker Studio, Flourish, Kumu, Streamlit, ngrok

**Developer Tools:** VS Code, Google Colab, GitHub

**Typesetting:** LaTeX

## Projects

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### ■ Scientific Computing

**3tosses-game** | *Python, Pandas, Plotly, Streamlit*

- Monte Carlo simulation to estimate the event probability for an interesting coin-toss game.
- Performed to validate a theoretically derived solution.

 App Link

## Certificates

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### User-Centric Computing for HCI

2023

*IIT Guwahati*

- Final Grade: 79%, Top 1% nationwide in Jan-Apr 2024.
- Certificate PDF

### Deep Learning

2023

*IIT Madras*

- Final Grade: 96%, Top 1% nationwide in Jul-Oct 2023.
- Certificate PDF

### Natural Language Processing

2023

*IIT Kharagpur*

- Final Grade: 76%, Top 1% nationwide in Jan-Apr 2023.
- Certificate PDF

## Awards and Achievements

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### Junior Research Fellowship Awardee (Linguistics)

Dec 2022

*University Grants Commission*

- One among 8 people awarded nationwide in 2022.

## Test Scores

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### Graduate Aptitude Test in Engineering (Linguistics)

Mar 2021

*National Coordination Board (NCB) - GATE*

- All-India-Rank 10