

Agatha Mukherjee

Siliguri, Darjeeling | agathamukherjee243@gmail.com | 7908764340 |

<https://www.linkedin.com/in/agatha-kristi-mukherjee-9b62b9241/>



Objective

To obtain a position as a Lecturer/Assistant Professor in the Department of Information Technology, where I can utilize my academic knowledge to teach effectively, support student learning, and contribute to academic growth.

Education

Maulana Abul Kalam Azad University of Technology, M.Tech in Information Technology Sept 2024 – July 2026

- GPA: 7.85/10.0.

- **Coursework:** Advanced Data Structure, Soft Computing , Advanced Operating System.

RCC Institute of Information Technology, B.Tech in Information Technology(Lateral) Aug 2021 – June 2024

- GPA: 8.31/10

- **Coursework:** Computer Architecture, Data Structure , Operating Systems , Computer Networks ,DBMS.

Siliguri Government Polytechnic, Diploma Engineering in Computer Science and Technology Aug 2017 – July 2020

- Percentage: 69.1/10

- **Coursework:** programming languages (C, Python,), data structures and algorithms, database management systems, computer networks.

Jyotsnamoyee girls' high school, Higher Secondary in Science in Distance May 2019

- Percentage: 64/100

- **Coursework:** Physics , Chemistry , Mathematics , Biology.

Phansidewa Balika Vidyalaya, Secondary Examination May 2014

- Percentage: 62.85/100

- **Coursework:** Bengali , English , Physical Science , Mathematics , Life Science , History , Geography.

Experience

Assistant Professor, Swami Vivekananda University. Barrackpore, West Bengal August 2026 – Now

- Delivered courses in Operating System,Distributed DBMS, Essentials of Cyber Security.

Lecturer, JLD College of Engineering Management (Under Techno-India Group) January 2026 – April 2026
,South 24 Parganas , West Bengal

Publications

- **Comparative Analysis of Encrypted (VPN) and Unencrypted (Non-VPN) Traffic Classification Using AI Models** Jan 2026

Sadananda Banerjee , Agatha Mukherjee, Chanchal Patra , Debasis Giri and Tanmoy Mitra

Conference Presented, Second International Conference on Intelligent Systems and Security (ICISS 2026)

Projects

HMAC-PRNG Augmented RSA-PSS Digital Signature Scheme for Enhanced Message Integrity

- Developed an HMAC-PRNG augmented RSA-PSS digital signature framework using Python to enhance message integrity, tamper detection, and forgery resistance through message-dependent randomized hashing.
- Libraries and Tools Used: Python, SHA-256, RSA-PSS (RFC 8017), HMAC-based PRNG.

STREET LIGHT WITH SOLAR And SENSOR

- Solar streetlights are designed to work throughout the night, many can stay lit for more than one night if the sun is not in the sky for an extended period of time.
- Tools Used: Arduino IDE , Embedded C/C++.

Technologies

Languages: C, Java, HTML, CSS , SQL.

Technologies: VS Code, Arduino IDE, Google Colab, Overleaf.

Declaration

I , Agatha Mukherjee , hereby declare that all the information provided in this resume is true to the best of my knowledge and belief.

Signature

Date