

Full Name	Atrayee Nandy
Date of Birth	13 October 1998
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Professional Summary

Microbiology-focused Medical Laboratory Technologist with 4 years of experience in clinical diagnostics and research laboratories. Specialized in Microbiology, Molecular Diagnostics, culture & sensitivity testing, PCR-based techniques, and laboratory quality practices. Currently associated with an ICMR-supported research project, with strong exposure to hospital-based microbiology services and NABL-oriented laboratory workflows.

Core Skills

Clinical Microbiology • Microbial Culture & Identification • **Antimicrobial Susceptibility Testing (AST)** • Staining Techniques • **PCR & Molecular Diagnostics** • AMR Research & Surveillance • **Sample Processing & Documentation** • Quality Assurance / QC • **Technical Reporting** • Laboratory Biosafety & BMW Management

Professional Experience

Swami Vivekananda University – Department of Medical Laboratory Technology (MLT)

Teaching Assistant

- Assisted faculty members in **teaching and practical training** for Medical Laboratory Technology students.
- Conducted and supervised **laboratory practical sessions** in areas such as Microbiology, Haematology, Biochemistry, and other MLT subjects.
- Guided students in **laboratory techniques, specimen handling, staining procedures, diagnostic methods, and laboratory safety practices**.
- Assisted in **practical demonstrations, student assessments, record maintenance, and academic activities**.
- Supported the department in maintaining **laboratory discipline, equipment handling, quality practices, and safe laboratory procedures**.
- Provided students with **hands-on technical guidance** to strengthen their practical laboratory skills.

Research Project Laboratory Technologist | Antimicrobial Resistance (AMR) Research Project

Experience: 2 Years | ICMR-Supported Research

- Worked on an **ICMR-supported Antimicrobial Resistance (AMR) research project** focusing on antimicrobial resistance surveillance and One Health-based approaches.
- Performed **microbial culture, isolation, identification, antimicrobial susceptibility testing (AST), and characterization of bacterial isolates**.
- Conducted **molecular diagnostic techniques, including PCR**, for detection and investigation of antimicrobial resistance-associated targets.
- Processed and analyzed **human, animal, food/environmental samples** as part of AMR surveillance and research activities.
- Maintained **research data, sample records, laboratory documentation, and quality-control records** in accordance with study protocols.
- Assisted in **research study implementation, laboratory quality assurance, data analysis, and interpretation of microbiological findings**.
- Supported preparation of **technical reports, research documentation, project records, and scientific presentations**.
- Followed **biosafety, infection-control, waste-management, and quality-assurance procedures** throughout laboratory activities.

The Mission Hospital, Durgapur – Microbiology Department

Medical Laboratory Technologist | Experience: 1 Year 3 Months

- Performed **routine microbiological investigations**, including specimen processing, culture, identification, and antimicrobial susceptibility testing.
- Conducted **microbiological staining procedures** and assisted in the interpretation and reporting of laboratory findings.
- Managed **day-to-day microbiology laboratory operations**, ensuring accurate and timely processing of clinical specimens.
- Performed **culture and sensitivity testing** for clinically significant bacterial isolates.
- Maintained **laboratory records, quality-control practices, and documentation** in accordance with laboratory protocols.
- Collaborated with **clinicians and healthcare professionals** to support timely and accurate diagnostic services.
- Followed appropriate **biosafety, infection-control, and biomedical waste-management procedures** during laboratory work.

R.N. Tagore International Institute of Cardiac Sciences (Narayana Hrudayalaya), Kolkata

Intern – Medical Laboratory Technology

- Completed comprehensive laboratory training across **Biochemistry, Microbiology, Haematology, Histopathology, and Blood Bank** departments.

- Assisted with **clinical sample collection, processing, preparation, and routine diagnostic investigations.**
- Gained practical exposure to **microbiological culture and staining, haematological investigations, biochemical testing, histopathology procedures, and blood bank operations.**
- Assisted in **blood grouping, cross-matching, component-related activities, and maintenance of blood bank records** under supervision.
- Developed hands-on understanding of **laboratory safety, quality practices, infection control, and proper sample handling.**
- Supported laboratory personnel in ensuring **accurate, timely, and reliable diagnostic services.**

Education

Qualification	Board / University	Year	Result
MMLT	WBUHS	2026	79%
BMLT	Capital University	2021	70%
DMLT	State Medical Faculty of West Bengal	2018	64.37%
Higher Secondary (HS)	WBCHSE	2016	71%
Secondary	WBBSE	2014	80.4%
Computer Applications Certificate	Govt. of WB	2016	75%

Book Chapter Contributions

- Contributed to **two book chapters** in the field of **Medical Laboratory Technology**
 1. **“Principles of Parasitic Diseases in Clinical Diagnostics” – Chapter 1: Fundamentals of Clinical Parasitology**
ISBN: 978-93-5759-572-8
 2. **“Foundations and Frontiers of Hematology” – Chapter 4:**
ISBN: 978-93-5717-560-9

Languages

English, Hindi, Bengali

Declaration

I hereby declare that the information provided above is true and correct to the best of my knowledge.

(Atrayee Nandy)