# IMG_20230115_223308.jpg

# Akanksha Tripathi

# Taramandal Gorakhpur UP ● 273017

* [akanksha.tripathi\_bt.bio21@gla.ac.in](mailto: akanksha.tripathi_bt.bio21@gla.ac.in)
* www.linkedin.com/in/akanksha-tripathi-10a523240
* +91 7455051602

**OBJECTIVE**

Aiming to secure a role in a good company where I can leverage my skills in natural language processing, data analysis to develop innovative solutions that transforms the way people interact with technology.

# EDUCATION

B.Tech in Biotechnology, GLA University, Mathura 8.61 CPI 2021-2025

Intermediate, SVM Public School, Gorakhpur 79% 2020-2021

High School, SVM Public School, Gorakhpur 75.4% 2018-2019

# TRAINING AND INTERNSHIP EXPERIENCE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_

1. **BRD Medical College, Gorakhpur May 2023 - Jul 2023**

*In Culture & Drug Susceptibility Testing Lab , Role: Trainee*

* + **Topic:** To study comparative efficacy of CBNAAT & FL-LPA in respect to Rifampicin resistance found in MTB positive isolates at tertiary care centre
  + **Industrial Training:** Processing of Samples using classical methods and various instrumental technologies.
  + **Key Responsibilities:** Performing CBNAAT Test and profiling their result, Segregating Rifampicin resistance samples, AFB Staining, Microscopy , DNA Isolation , PCR & FL-LPA
  + **Key Learning:** Learned about Diagnostic techniques(CBNAAT& FL-LPA), Microscope handling, Slide preparation, AFB staining, Acquired knowledge of Good Laboratory Practice (GLP) standards and their application in a professional setting.

1. **Verzeo, Online Aug 2022 - Sept 2022**

*Role: Trainee*

* + **Online Training:** Two months summer training in Bioinformatics where I have learned the concept of Bioinformatics & libraries in it.
  + **Key Learning;** Worked on various tools (NCBI, Ensembl, DrugBank, PyMOL, PubChem, SwissADME,etc)

# PROJECTS & PATENTS

**Solar Water Desalinator & Filter – NewGen IEDC Project** Mar 2023 – May 2024

*Team Leader*

● **Project Overview**: Led a 2-member team to develop an innovative desalination machine, addressing skin issues , hairfall , infertility of lands etc caused by saline water,targeting people of each age groups.

● **Role and Responsibilities**:

* Directed the project under the National Science and Technology Entrepreneurship Development Board (NSTEDB) program, facilitated by the Department of Science & Technology (DST), Government of India.
* Oversaw all phases of the project, including concept development, market research, product development, and prototype testing.
* Managed team coordination, ensuring alignment with project goals and deadlines.

● **Technologies and Skills**: Product Development, Market Research, Testing, Project Management, Leadership

● **Patent**: Published, *Application ID:* **202311077334** (Grant in progress)

**SEMINAR & CONFERENCE**

Presented a poster on **“*To study comparative efficacy of CBNAAT & FL-LPA in respect to Rifampicin resistance found in MTB positive isolates at tertiary care centre*”** in an International Conference on: **One Health Initiative : Harmonizing Human, Animal and Environmental Health (OHI-2023)** organized byGLA University Mathura (18 Jan to 20 Jan 2024) and won ***Best Poster Presentation Award****.*

# TECHNICAL SKILLS

* ***DRY LAB***
* Handling of Databases (Nucleotide Sequence, Protein Structure & Protein Sequence Databases )
* Pathway Analysis
* Sequence Alignment
* Molecular Docking (CB Dock)
* Molecular Dynamic Simulation(Basics)
* Microsoft Tools (Excel,Word,PowerPoint)
* ***WET LAB***
* Lab Instrument Handling (Microscope, Centrifuge, Autoclave, LAF)
* Bacterial Staining (Gram, Endospore, AFB), Media Preparation
* DNA Isolation
* Sterilization Techniques(Dry & Moist heat)
* Bacterial Culture
* Molecular Diagnostic techniques (ELISA, PCR, Gel electrophoresis, CBNAAT, FL-LPA)

**PROFESSIONAL SKILLS**

* Meticulous
* Scientific Writing
* Interpersonal skills
* Leadership skills
* Time Management Skills
* Ability to identify & solve problems
* Creative Thinking and Presentation skills

# PROFESSIONAL ACHIEVEMENTS/ INSIGHTS

# IIT GUWAHATI as a campus ambassador .

# Vidya Mandir Institution for getting “ALL INDIA RANK - 41” in “Vidya Mandir Intellect Quest” an examination conducted by that institution

# IIT Madras-NPTEL – ELITE Certificate in I Think Biology

# IIT Kharagpur-NPTEL – ELITE Certificate in Modern Food Packaging Technologies: Regulatory Aspects and Global Trends

# IIT Guwahati-NPTEL – ELITE Certificate in Municipal Solid Waste Management

# IIT Madras-NPTEL – Certificate in Introduction to Developmental Biology.

# Certified by Ministry of Micro, Small and Medium Enterprises in the ‘Innovative Bharat 2.0’ event.

# EXTRA/CO-CURRICULAR ACTIVITIES

* Participated in 8th Annual E- Symposium on Cell & Gene therapy organized by Centre for Stem Cell Research.
* Cordially participated in Biotech Week organized by Biotech Club.
* Actively participated in grand event “ GLA’S GOT TALENT ”, a cultural fest organized by “Club Literario”
* Certified by “Learn Delta” an edutech company for completion of “AutoCAD 2D” and “Isometric vs 3D” workshop
* Participated in various competition - Debate Competition, Quiz Competition , Rangoli Competition

# DECLARATION

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