



**Mo Moin**

Roll No.: 22BTB0A45

B Tech

Biotechnology

National Institute Of Technology, Warangal

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GitHub Profile

LinkedIn Profile

## EDUCATION

### •National Institute of Technology, Warangal

2022 - 2026

B tech Biotechnology(Major)

CGPA: 7.65

### •National Institute of Technology, Warangal

2023 - 2026

B tech Electronics and Communication Engineering(Minor)

## EXPERIENCE

### •Software Engineer Intern

May 2025 - July 2025

Department of Atomic Energy , VECC

Kolkata , India

- Developed a **Python-based multilingual video recording platform** with Tkinter GUI, enabling large-scale dataset collection.
- Integrated **real-time face detection (Dlib HOG)** and **audio/video capture (FFmpeg)** for data accuracy.
- Automated **data quality checks** and **certificate generation**, supporting **20+ Indian languages** across universities.
- Implemented deep learning models using Python in a **Linux-based system**, leveraging GPU resources for efficient training.

### •Research Intern

May 2024 - July 2024

Summer Intern , Guide : DR. Sumit kumar Singh , Department of Bio-Chemical Engineering , IIT BHU

Varanasi , India

- Worked on extraction and quantification of L-DOPA from Mucuna pruriens seeds using biochemical and analytical techniques.
- Optimized extraction protocols for higher yield and purity, contributing to Parkinson's disease therapeutic research.
- Gained hands-on experience with solvent extraction, Soxhlet apparatus, Evaporator , Lyophilizer , HPLC analysis, and phytochemical screening methods.

## PERSONAL PROJECTS

### •E-commerce Review Analytics Project

Analyzed 500K+ Amazon reviews to uncover rating patterns, sentiment trends, and top reviewers.

- Performed sentiment analysis using **TextBlob** and visualized insights via **Matplotlib**.
- Identified most helpful, positive, and negative reviews to derive user behavior insights.
- Exported key metrics to Excel and presented findings using charts and graphs.

### •SparkSwipe (MERN + PostgreSQL )

Building a **swipe-based networking platform** with **authentication, recommendation engine, and real-time UI**.

- Designed **PostgreSQL schema**, backend APIs with **Express/Node.js**, and a responsive **React frontend**.
- Implemented secure user authentication and interactive swipe logic for profile matching.
- Currently working on **deployment, scalability, and performance optimization**.

### •Personal Portfolio Website | MERN Stack

Designed and developed a **cyberpunk-inspired portfolio** using **React, Node.js, Express, and MongoDB**.

- Integrated custom avatar, Lottie animations, Framer Motion, and a functional contact form.
- Fully responsive, deployed on Vercel, showcasing projects, DSA stats, and resume.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** C++ , Python , SQL , HTML ,CSS ,JavaScript

**Developer Tools:** VS Code , Figma , Excel , Git/GitHub, Power BI (basic), Tableau (basic) ,

**Frameworks:** MERN(MongoDB ,ExpressJS , ReactJS , NodeJS ,UI/UX Design

**Soft Skills:**Communication, Leadership, Content Creation

**Coursework:** C++ , DSA , Python , SQL , IOT

**Libraries:** TextBlob, pandas, matplotlib, MERN, Bootstrap, Tailwind

**Machine Learning , Deep Learning :** Computer Vision (Dlib, Image Processing), Regression, Classification, Diffusion Models, NERF

## POSITIONS OF RESPONSIBILITY

### •Coding team, Software development Club

2023 - 2024

### •Poster Designing Team, Value Education Club

2023 - 2025

## ACHIEVEMENTS

### •Solved 500+ DSA problems on Leetcode and GeeksforGeeks

### •Achieved highest grade in Unit operations and Engineering Mathematics