# MOSTAFIZUR RAHMAN

## B.Tech (CSE)

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## PROJECTS

### Development of a Semantic Segmentation Framework for Unstructured Traffic Using Deep Learning

**Assam Don Bosco University**

📅 Aug 2024 – May 2025

- Designed and implemented a real-time semantic segmentation model optimized for unstructured Indian traffic scenarios.
- Improved model generalization across varying conditions (regions, lighting, etc.) to ensure real-world robustness.
- Achieved high FPS and reduced FLOPs, making it suitable for deployment in autonomous vehicles and traffic monitoring systems.
- Minimized computational complexity through architecture-level optimizations.
- Research work accepted for publication at **GCON 2025**.

### Entity Relationship Extraction from Natural Text

**Assam Don Bosco University**

📅 Jan 2024 – Jun 2024

- Built an NLP system for extracting and classifying entity relationships using BERT-Uncased and UniRel.
- Achieved 87% precision through advanced training techniques and parameter tuning.
- Developed an API ecosystem for text prediction and user management.

### CrowdWatch AI

**Assam Don Bosco University**

📅 Aug 2023 – Dec 2023

- Developed an AI system for crowd control and security using YOLOv4-Tiny and person re-identification.
- Built a dashboard for real-time crowd density analysis and visitor tracking.
- Paper *"CrowdWatch AI: Enhancing Public Space Security"* accepted at **ICACIS-2024**, to be published in **Springer CCIS**.

### Grievance Management System

**Assam Power Distribution Company Limited (APDCL)**

📅 July 2023

- Developed an internal grievance redressal system using Django and Angular to streamline complaint handling across departments.
- Implemented automated grievance load distribution based on staff availability and domain expertise.
- Designed role-based dashboards and integrated auto-assignment logic to enhance workflow efficiency and resolution timelines.

## MY LIFE PHILOSOPHY

*"I am passionate about using technology to solve real-world problems and always eager to learn new things. I'm looking for a role in a well-established multinational company where I can grow professionally, work on meaningful projects, and contribute to innovative solutions."*

## EDUCATION

### BTech in Computer Science and Engineering

**Assam Don Bosco University**

● Guwahati, Assam

Graduated in 2025
Final CGPA: 8.21

### Class 12

**Jnv Rangia**

📅 2021, 82.6 % in CBSE Board

### Class 10

**Jnv Rangia**

📅 2019, 73 % in CBSE Board

## MOST PROUD OF

🏆 **Winner of the National Level Short Video Competition on NEP 2020**
"NEP Ki Samajh" held from 15 June to 14th July 2023 by Ministry of Education.

🏆 **Third Prize in a Coding Competition at Assam University**
Led and coordinated IEEE Student Branch activities, fostering collaboration and innovation among peers at Assam Don Bosco University.
📅 Feb 2022

## VOLUNTEERING

### Chairperson IEEE Stduent Branch

**Assam Don Bosco University**

📅 July 2024 – Present

# EXPERIENCE

## Intern
**Subroutes.com**

📅 Dec 2024 – Present          📍 Hybrid Guwahati

- SDE - CI/CD | Backend Services | API/cloud

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## Intern
**APDCL**

📅 July 2023 – July 2023          📍 Hybrid Guwahati

- Internal grievance management system
- Technologies used: Django, Angular

# CERTIFICATION

## Salesforce Launchpad Program
**PwC Acceleration Center**

📅 Jan 2024 – Jul 2024

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## Google IT Automation with Python Professional Certificate
**Google, Coursera**

📅 May 2024 – Jul 2024

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## Google Cybersecurity Professional Certificate
**Google, Coursera**

📅 Feb 2024 – July 2024

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## Programming in Python
**SWAYAM, CEC**

📅 Feb 2024 – May 2024

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## The Joy of Computing using Python
**NPTEL, IIT Madras**

📅 Jan 2023 – Apr 2023

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## Microsoft Philanthropies' "CyberShikshaa for Educators"
**Microsoft**

📅 Feb 2023 – Feb 2023

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## Python for Data Science
**NPTEL, IIT Madras**

📅 Jul 2022 – Aug 2022

# STRENGTHS

Hard-working   Problem-Solving Skills
Continuous Learner   Motivator & Leader

# TECHNICAL SKILLS

### Advance

Python   SQL   Open Source   Database
Web Development   Computer Networks

### Intermediate

C   Java   AWS S3   IAM   EC2
VPC & Security Groups   Virtual Machines
Version Control (Git & Github)   Deep Learning
Machine Learning   MS- Office Suite

### Beginner

Android Development

# LANGUAGES

**English** (Fluent – Read, Write, Speak)
**Hindi** (Fluent – Read, Write, Speak)
**Assamese** (Native – Read, Write, Speak)
**Bengali** (Native – Read, Speak)

# REFEREES

**Prof. Bobby Sharma**
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