


Sahim Salem

 [LinkedIn](#) 

[GitHub](#) 

[Portfolio](#) 

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SKILLS

- **Expertise:** C, C++, HTML, CSS, Git, MySQL, OOP.
- **Intermediate:** Python, Java, PyTorch, React, JavaScript, Flutter, Firebase.
- **Beginner:** MongoDB, Node.js, Flask, Express.js.

PROJECTS

Face Emotion [Flutter, Firebase] [[GitHub Link](#)] 

Developed a social media app with Flutter & firebase, featuring:

- Face emotion recognition using TensorFlow Lite.
- Real-time comments, pagination, unique username verification, ratings, and like/dislike functionality.

Emergency Assistant [Flutter] [[GitHub Link](#)] 

Created a Flutter-based mobile app with features:








- First-aid guide and MMS alerts to favorite contacts.
- Custom maps for nearby hospitals, police, and fire services, along with emergency helpline access.

News Caster [React, Firebase, MongoDB, Node, Express] [[GitHub Link](#)]  [[Website](#)] 

Built a full-stack website with Next.js for the reporters' community, featuring:

- Fake news detection using TensorFlow.js.
- Real-time rating, pagination, remember me login and unique username verification.

ACHIEVEMENTS, PARTICIPATION & PROBLEM-SOLVING EXPERIENCE

- CU Intra-University Programming Contest on Engineering Day 2022 [**3rd Runner-up**]
- 2023 **ICPC Dhaka Regional** Online Preliminary [**Team: CU_nothing_to_lose**, Top 15%] [Link](#) 
- NSTU ICE Fest **Regional** Programming Contest 2020 [**Team: Cu Brain Hammer**, ranked 20th] [Link](#) 
- CUSS IT Fiesta 2024 Programming Contest [**Team: CSECU_false-bit**, ranked 28th] [Link](#) 
- Solved **1000+** programming problems on online judges
- Participated in **80+** online and **10+** onsite contests
- Max rating: **1555 (LeetCode)**, **1483 (CodeChef)**, **1207 (Codeforces)**
- **Competitive programming profile:** [Codeforces](#)  — [CodeChef](#)  — [UVA](#)  — [LeetCode](#) 

RESEARCH EXPERIENCE

Multi-task Solution for Aspect-Category Sentiment Analysis [PyTorch] [Thesis Work]

Proposed religious hate speech dataset and developed a solution for multi-category sentiment analysis of Bengali religious hate speech using a transformer architecture-based **BERT** model, identifying the sentiment of five categories where each category represents a religious aspect.

Severity Analysis of Bengali Toxic Comments [PyTorch]

Developed a **BERT** model to quantify toxicity in Bengali comments using continuous scores for finer distinctions.

EDUCATION

University of Chittagong

B.Sc. in Computer Science and Engineering

Jan 2018 - October 2024