



Chowdhury Sabir Morshed

M.Tech.

Information Technology

National Institute of Technology Karnataka, Surathkal

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Github

LinkedIn

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech.	National Institute of Technology Karnataka, Surathkal	7.64	2023-Present
B.Tech.	Aliah University	7.83	2019-2023
Higher Secondary	WBCHSE Board	82.8%	2018
Secondary	WBBSE Board	74.4%	2016

INTERNSHIP

• Amazon Development Centre(India)

SDE Intern

Onsite

January 2025 – June 2025

- Developed a dashboard to visualize and analyze SOC's and product intercept health checks using real-time data with interactive filters.
- Enabled stakeholders to quickly assess the overall system and product health, identify potential issues, and make data-driven decisions efficiently.
- Researched on the AWS services that can be used.
- Integrated amazon RDS to their automation framework to push the test results to database in realtime.
- Created the dashboards using Grafana to visualize the data in realtime.
- Set up the email alerts using Amazon SNS and slack alerts which will notify if something goes wrong in the framework.

Tech Stack: Grafana, Amazon RDS, Amazon SNS, PostgreSQL, psycopg2, SQL

PROJECTS

• Vehicle Accident Detection from CCTV Footage

Deep Learning, CNN, Tensorflow, MobileNetV2

Jan. 2024 - March. 2024

Github

- Developed an advanced vehicle accident detection system using MobileNetV2, enhancing accuracy and efficiency in processing CCTV footage.
- Utilized image pre-processing techniques to enhance video frame quality and ensure consistent input data for the model
- Achieved a 91% accuracy rate.

• Speech Emotion Recognition

Deep Learning, Tensorflow, CNN, MFCC feature extraction

Nov. 2023 - Dec. 2023

Github

- Developed a Speech Emotion Recognition system using CNN to analyze and categorize emotions based on speech patterns to improve human computer interaction.
- Utilized and preprocessed three prominent datasets: RAVDESS, TESS, and CREMA-D, enhancing the model's ability to recognize a broad spectrum of emotions.
- Achieved 92% accuracy in pattern recognition, enabling the model to accurately predict and interpret emotional content in speech, reducing computation time and enhancing performance.

SKILLS

- **AWS Services:** IAM Role Management, Lambda Function, AWS Glue, S3 Bucket, DynamoDB, Timestream DB, Redshift, Athena, Amazon RDS, Amazon SNS
- **Grafana Visualization Tool:** Worked with most of the visualization and many datasources of AWS, Alerting, SAML Authentication
- **Programming:** Java, Python, C, Dart
- **Other Database Management:** PostgreSQL, MongoDB, MySQL, Firebase
- **Operating Systems:** Windows, Linux, Mac

ACHIEVEMENTS

Successfully cleared **GATE-2023** Examination with **97 percentile**.

2023

Successfully cleared **GATE-2022** Examination with **91 percentile**

2022

Secured **2nd position** in West Bengal State Student-Youth Science Fair 2016.

2017