ISHAN ROY CHOWDHURY

Nationality: Indian **Date of birth:** 04/03/1992 **Gender:** Male

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LinkedIn: https://www.linkedin.com/in/ishan-roy-chowdhury-/

Home: Kolkata, WestBengal, (India)

ABOUT ME

Five years of experience in ADAS Software Development. Algorithm development for Positioning systems, localization, map reconstruction for SAE Level 3/2 Systems.Skilled in C, C++, Python, SQL, large scale data analysis and end to end testing conforming to ASPICE standards.

WORK EXPERIENCE

Senior Software Engineer
Mercedes Benz Research and Development India [06/08/2018 – Current]

City: Bangalore
Country: India

- Currently working on :
  - reconstruction of SD (Standard Definition) Maps using Adasis V2 protocol for the upcoming generations of Automated Driving feature of Mercedes Benz L2 Systems in collaboration with Nvidia.
  - Responsible for developing safety critical high quality software which involves activities such as requirement formulation, design of software module and finally feature development in C++ on Autosar Adaptive stack.
  - Build the testing framework for testing the implemented requirements at module level SWE6 and unit testing at SWE4 level.
- Developed and tested module for longitudinal localization of the vehicle for Level-3 Drive Pilot feature which used signatures from High definitions maps (Adasis V3) and compared them against fused sensor signatures using probabilistic models to estimate vehicle's current position with centimeter level accuracy.
- Contributed to reconstruction of HD Maps module for positioning using ADASIS V3 data and autosar classic for SAE Level 3 Systems.
- Worked with suppliers creating a tool to generate virtual map and sensor data. Created a framework which integrated this synthetic data with the module to perform black-box L2/module testing.

EDUCATION AND TRAINING

Master of Engineering in Computer Science
Jadavpur University [01/06/2016 – 01/06/2018]

City: Kolkata
Country: India
Website: http://www.jaduniv.edu.in/
Field(s) of study: Computer Science and Engineering
Final grade: 8.27
Thesis: 'Fine-Grained' Human Activity Recognition Using Smartphone Accelerometer Data : Thesis aims at making HAR models which can identify "fine-grained" distinctions in "Coarse-Grained" activities from Smartphone Accelerometer Data using Machine Learning Algorithms and feature engineering.

Relevant Coursework: Machine Learning,Advanced Database System Concepts,Pattern Recognition,Soft-Computing,Bioinformatics,BigData Analytics, Advanced Algorithm

Publications:

1. Saha J, Chowdhury C, Roy Chowdhury I, Biswas S, Aslam N, "An Ensemble of Condition Based Classifiers for Device Independent Detailed Human Activity Recognition Using Smartphones", Information. 2018; 9(4):94.
2. Ishan Roy Chwodhury, Jayita Saha, Chandreyee Chowdhury, "Detailed Activity Recognition with Smartphones" , EAIT 2018, IIEST Shibpur.
3. Jayita Saha, Chandreyee Chowdhury, Ishan Roy Chowdhury, and Priya Roy, "Fine Grained Activity Recognition using Smart Handheld", ICDCN 2018 Varanasi.

Bachelor of Technology in Computer Science
Maulana Abdul Kalam Azad University of Technology [01/05/2011 – 01/05/2015]

City: Kolkata
Country: India
Website: https://www.makautexam.net/
Field(s) of study: Computer Science and Engineering
Final grade: 8.20

Relevant Coursework: Engineering Mathematics, Discrete Mathematics, Design and Analysis of Algorithms, Data Structures, Theory of Computation

LANGUAGE SKILLS

Mother tongue(s): **Bengali**

Other language(s):

English	**German**
LISTENING C2 **READING** C2 **WRITING** C2	**LISTENING** A1 **READING** A1 **WRITING** A1
SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C2	**SPOKEN PRODUCTION** A1 **SPOKEN INTERACTION** A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user