

Roll Number : 140101086

B.Tech - Computer Science and Engineering Indian Institute of Technology Guwahati

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Education

Year	Degree / Certificate	Institute / Board	CGPA/Percentage
2014 - 2018	B.Tech	Indian Institute of Technology, Guwahati	9.32 (Current)
2014	Senior secondary	CBSE board	91.6%
2012	Secondary	ICSE board	96.4%

Experience

• Research Intern at Hanyang University, South Korea.

May 2016 - July 2016

Prof. Frank Chung-Hoon Rhee, member of IEEE, Korea representative of IFSA

goo.gl/yczOr6

- 1. Developed a search engine for Hanyang website.
- 2. Wrote a research paper on application of type 2 Fuzzy Systems to model uncertainty in pattern recognition techniques to improve performance.
- Software Developer Intern at Amazon.

May 2017 - July 2017

Transaction Risk and Management Team, ADC BLR12

Worked on a platform to configure a fraud detection service for digital and physical orders.

Publications

• (Ongoing) **Chourasia, R.**, Vyas, S., Radhakrishnan, A., Rhee, F. C.-H., Applying interval type-2 fuzzy logic for Parzen window density estimation.

Prof. Frank Chung-Hoon Rhee, member of IEEE, Korea representative IFSA

JIS

- (Accepted) Chourasia, R., Saxena, V., Yadala, N., Rhee, F. C.-H., Visualisation of Two-dimensional Interval Type-2 Fuzzy Membership Functions using General Type-2 Fuzzy Membership Functions.
 Prof. Frank Chung-Hoon Rhee, member of IEEE, Korea representative IFSA IFSA-SCIS 2017
- (Accepted) Saxena, V., Yadala, N., **Chourasia, R.**, Rhee, F. C.-H., Type Reduction Techniques for Two-dimensional Interval Type-2 Fuzzy Sets.

Prof. Frank Chung-Hoon Rhee, member of IEEE, Korea representative IFSA

FUZZ-IEEE 2017

Projects

• Search engine for Hanyang Universiy

Prof. Frank Chung-Hoon Rhee, member of IEEE, Korea representative of IFSA

Worked on a funded project for developing a search engine on python for searching lecture notes, documents and forms along with traditional webpage searches on hanyang.ac.kr domain.

• Smart Line-following Autonomous Efficient Robot (S.L.A.E.R)
Robotics Club IIT Guwahati

Mar 2016 - Current goo.gl/UpsscG

- 1. An autonomous line follower capable of learning a map of lines and then creating a virtual graph to navigate using shortest path, while detecting and avoiding tagged objects using image processing.
- 2. This project won the Robothon Kolkata, was demonstrated in Robofest, IIIT Hyderabad and also in Techexpo IIT Guwahati.
- Android application for geo-based agumented reality Microsoft Code.Fun.Do

Oct 2015 - Dec 2015 github.com/Rishav1/DeStrangify

- 1. A login based application to show the users, locations of their nearby friends in an **augmented reality view**.
- 2. Used online cloud storage system of **parse.com** for storing user credentials and real-time locations.
- Dynamic walking on a biped bot Robotics Club IIT Guwahati

July 2016 - Current goo.gl/UpsscG A biped bot implementing dynamic walking. The bot's chassis was made by 3-D printed parts, and the joints were made using 180-degree servos. The joints were controlled via ROS running on a mounted Raspberry Pi. The data-set for ML training was generated by manually controlling the bot using joystick.

File sharing system for Institute intranet

Sept 2015 - Dec 2015

Prof. Santosh Biswas

Django framework based file sharing system, with drag and drop, multiple upload, share via link and data compression features.

Technical skills

- Programming languages: C, C++, Python, Java, Bash, Lua.
- IDE: Android Studio, Xilinx ISE, Visual Studio*.
- Statistical Languages: Matlab, Octave.
- Database management : MySQL, Neo4j, MongoDB, Sqlite3.
- Frameworks: Django.
- Robotics: Arduino, ROS, gazebo.
- Misc.: Git, OpenCV, OpenAI gym, Torch library.
- Operating system: Windows, Linux(Ubuntu, Rasbian)
 - * Elementary proficiency

Positions of Responsibility

• Manager, Robotics Club, IIT Guwahati.

Jan 2016 - April 2017

Achievements

- Topped Department of Chemical Engineering in first year (CPI- 9.83).t
- Was the leader of the **winning team of Robothon**, Kolkata, organized **under Robofest by IIIT Hyderabad** in top 5 cities of Kolkata, Delhi NCR, Bombay, Hyderabad and Bengaluru.
- Was the leader of the team that secured **2nd position in IoT hackathon** organized by **Bolt IoT in collaboration with Techniche**, at IIT Guwahati.
- Secured **3rd position in the image processing competition** held under **Kriti 2016, Inter Hostel Management Cup**, IIT Guwahati.
- Got AIR-3890 in JEE(advanced)2014 and AIR-4126 in JEE(mains) 2014 (top 0.3% among 1.4 million candidates)
- Was awarded scholar badge for being the class topper of class 11 examination.
- Was the **school topper**, **among 300 students** in class 10 **ICSE examinations**, and achieved a **district rank of 5**.

Extra curriculars

- Image Processing workshop: Conducted a workshop on basic image processing using OpenCV.
- **NES and SNES simulator RL bots**: Makes AI bots to play NES and SNES games on open-sourced simulators like FCEUX and ZSNES.
- Robotics : Keen interest in doing robotics team projects.
- Blogging: Active blogger.

Key courses taken

- · Database Management Systems.
- Data structures and algorithms.
- Probability Theory and Random Processes.
- · Economics and game theory.
 - * To be completed in April 2017

- Networks and Communication.
- Optimisation Theory.*
- Software Engineering.
- Theory of Computation.*

(References available on request)