# RAJARSHI LAHIRI

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## EDUCATION

| Degree / Certificate | Board / University | Institute | Year of Passing | Aggregate |
|---|---|---|---|---|
| Bachelor of Technology, Dept. of Computer Science and Engineering | Maulana Abdul Kalam Azad University | Institute of Engineering & Management, Kolkata | 2020 | 8.76 |
| XII (Higher Secondary) | Council for the Indian School Certificate Examination | The Future Foundation School, Kolkata | 2016 | 89.83% |
| X (Secondary) | Council for the Indian School Certificate Examination | The Future Foundation School, Kolkata | 2014 | 91.5% |

## WORK EXPERIENCE

**Assistant System Engineer- Trainee**
*Tata Consultancy Services*
August 2020–Present

- Currently working as a Salesforce developer in a semi-agile based team for a global beverages company as the client.
- Implemented change requests raised by client.
- Worked on a proactive idea for implementing a feature to reduce effort and provide better user experience.

**Intern**
*Adernal Labs*
June 2018-July 2018

- Developed and debugged webpages for an E-commerce site.

**Project Intern**
*Biotech Hub- Assam University*
June 2018-July 2018

- Worked on a project developing and deploying a classifier to classify Mice Liver Cell Images.

## PROJECTS

**Breast Cancer Histopathology Patch Wise Image Classification Using A Combination of Deep Convolutional Neural Networks – Final Year Project**

- Developed a pre-processing pipeline to prepare the images before it was used for training the CNN.
- Developed a way to classify the tumor images into 4 different classes using an unique inference strategy.
- Developed a REST API using a Flask server and deployed it to Heroku

**Blink**

- Built to help people with developmental disabilities like LIS, ALS, Tetraplegia etc. to communicate.

- The webcam input is taken to detect blinks that simulate left and right clicks and lets user control a custom virtual keyboard and then it is converted to computer generated speech.

**Malicious URL Detector**

- Developed an utility tool that uses a simple but novel algorithm to detect malicious URLs.
- Parsed URLs and computed entropy of the domain name along with WHOIS lookup to check how long the domain was created and also used 3rd party API all together to create a unique score and determine if it was safe to visit.

**Social2Day**

- A Web Forum to discuss social issue with or without login. Google Authentication was performed using Firebase's API.
- The frontend was created using bootstrap using the materialize framework and the data storage was done using Firebase's realtime database.
- Developed a live feed to display the posts.

## SKILLS

- Programming Languages : Java, Python, SQL, HTML, CSS, JavaScript
- Frameworks & Libraries : OpenCV, Bootstrap, React, Flask, Scikit-Learn, Keras
- Software & Tools : Git, Jupyter

## AWARDS & ACHIEVEMENTS

- Awarded the Techno Wiz Award for my technical contributions to college and also for my personal achievements.
- Awarded Best Contributor, **IEMGRAPH 2018**-Graphics International Conference on Emerging Technology in Modeling and Graphics at Institute of Engineering & Management, Kolkata
- Secured 2nd position in Hackstack 2018 : Hackathon event of Innovacion(Tech Fest of Institute of Engineering & Management)

## POSITIONS AND RESPONSIBILITIES

- *I.E.D.C Supervisor* (2019-2020)
  **I.E.M. R&D Lab**, sponsored by **I.E.D.C, Dept. of Science & Technology, Govt. of India**
- **Coordinator** - Kolkata Mini Maker Faire 2018
- **Chief Coordinator** – Smart Maker Festival Kolkata 2019

## CERTIFICATIONS

- Programming Data Structures & Algorithms Using Python - National Programme For Technology Enhanced Learning- Scored 71% (Elite Category)
- Introduction to Deep Learning - National Research University Higher School of Economics- **Coursera** (Grade-97%)

## PUBLICATIONS

- Roy N.D., Biswas A., Ghosh S., Lahiri R., Mitra A., Choudhury M.D. (2019) Detection of Necrosis in Mice Liver Tissue Using Deep Convolutional Neural Network. In: Deka B., Maji P., Mitra S., Bhattacharyya D., Bora P., Pal S. (eds) Pattern Recognition and Machine Intelligence. PReMI 2019. Lecture Notes in Computer Science, vol 11942. Springer
- Lahiri R., Dey S., Roy S., Nag S. (2020) Detection of Pulsars Using an Artificial Neural Network. In: Mandal J., Bhattacharya D. (eds) Emerging Technology in Modelling and Graphics. Advances in Intelligent Systems and Computing, vol 937. Springer

## PERSONAL INFORMATION

**Date of Birth**: 10th August, 1998
**Address**: W2CS 18/4, Phase 3, Golf Green, Kolkata-700095
**Languages known**: English, Hindi and Bengali.
**Hobbies**: Photography and Logo Design