

# AASTHA AGRAWAL

aastha980@gmail.com | +91-9971745939 | <https://github.com/aastha980> | <https://www.linkedin.com/in/aastha980>

## EDUCATION

Examination	Year	Board/University	%/CGPA
<b>B.E. (Computer Engineering)</b>	2016-2020	Netaji Subhas Institute of Technology	8.75
<b>Class XII</b>	2015-2016	Amity International School, Delhi / CBSE	95.8%
<b>Class X</b>	2013-2014	Amity International School, Noida / CBSE	10 CGPA

## WORK EXPERIENCE

- Intuit (Software Intern)** (May'19- July'19)  
To build an analysis engine on top of crash data received from Mac and Windows product. Designing common database, API calls and machine learning to implement analysis engine. It included working on AWS.
- GeeksforGeeks (Technical Content Writer)** (May '18-July '18)  
Published articles on Data Structures, Algorithms etc. (<https://auth.geeksforgeeks.org/user/aastha98/articles>)

## PUBLICATIONS

### Research paper in Springer Journal

(June' 2020)

Agrawal, A., Agarwal, A. & Bansal, P. Integration of fuzzy logic with Metaheuristics for education center site selection. Educ Inf Technol (2020). <https://doi.org/10.1007/s10639-020-10254-9>

## PROJECTS

- Judging a book by its cover** (April'20)  
Determine the role of various parameters in judging a book by its cover using neural networks, means, Vision API, and web scraping by Selenium. (<https://colab.research.google.com/drive/1QLIzrnEhJLI1mWzJZDq496Ew0CafIIZn?usp=sharing>)
- FaceCase** (February'19)  
Implemented Generative Adversarial Networks to generate images of Simpsons cartoon network dataset in TensorFlow & PyTorch. ([https://colab.research.google.com/drive/1ldWk4CU6\\_GmLE\\_bJDh5X6ck\\_iW4RpKG1](https://colab.research.google.com/drive/1ldWk4CU6_GmLE_bJDh5X6ck_iW4RpKG1))
- Automated Attendance Management System** (November'20)  
Portal for students to manage their attendance. Applied deep neural network to mark attendance. (<https://github.com/abhishekr700/face-recognition-ams>)
- Image Classifier** (January'19)  
Pytorch based application to implement supervised learning using CNN to classify images and determine their bounding region. ([https://colab.research.google.com/drive/1-Yv\\_LguMh5au4TpYJhHMm6vbmR23hFe](https://colab.research.google.com/drive/1-Yv_LguMh5au4TpYJhHMm6vbmR23hFe))
- Auctioneer** (January'18)  
A NodeJS application built using MongoDB to provide users with the facility to auction items online. Features are authentication, verification, real-time updates on placing bids & completion of the auction, round the clock bidding. (<https://github.com/abhishekr700/OnlineAuction>)
- Flood Hacked** (October'18)  
A web app to provide an optimal solution to distribute medical supplies across all the relief shelters during floods, given limited resources. It uses unsupervised algorithms like K-Means clustering algorithm to find the best route. (<https://github.com/MansiBreja/Flood-Hacked>)
- TourismAid** (June'18)  
A NodeJS app that provides the best route to travel through a city depending upon the distance and other factors. (<https://github.com/aastha980/TourismSupport>)
- Athena Bookstore** (November'17)  
A DBMS project built using MySQL, Node to automate a bookstore. ER models, construction of relational schema normalized up to BCNF. (<https://github.com/bhavya2020/Athena-Book-Store>)

## ACCOMPLISHMENTS

- College **Rank-3** in **CodersBit** contest and 103 rank in finale.
- Global rank **189**/(15000) in **October long challenge** of CodeChef
- Rank 1** in **MaitChef** contest organised by **CodeChef**.
- HackIIIITD, Esya** -Ranked in top 10 overall & **1st** in all girls' team.
- 3rd rank in **WICP - Contest 1** organized by **CodeChef**.
- Reached the second round of **Flipkart grid challenge** for object detection and localization.
- Rank 6** in SHE code' 2019 organized by **Skillenza**.
- Chemistry Topper** in Class 12th. Also Won **Gold medal** in Manavsthali National level maths competition in Class 12th.

## TECHNICAL SKILLS

- Languages:** C++, Python, HTML, CSS, JavaScript, NodeJS
- Packages:** Pytorch, TensorFlow, NumPy, Pandas, Bootstrap 4, Semantics UI, Selenium
- Databases:** MySQL, MongoDB
- Relevant Skills:** ML, AI, Neural networks, Deep learning, AWS React, Bitcoin (basics).

## POSITION OF RESPONSIBILITIES

- Core Team Member (Women in Machine Learning and Data Science):** support women who are interested in tech. I have taken workshops on Convolution Neural Neteork. (January '19-Present)
- Core Team Member (Women Who Code Delhi):** aids women in pursuing technology careers. I work with the events and sponsorship team. (June '18-Present)
- Volunteer experience at Rotaract and Prayas-** societies for underprivileged students.
- Head of core committee and trainer** for the 6-day workshop on "Basics of Competitive coding" in association with CodeChef