# Mohammad Taha Ali

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## EDUCATION

**B.Tech, Electronics and Communication Engineering** Galgotias College of Engineering and Technology, **75%** **Jul 2018—Jun 2022**
**Higher Secondary (ISC)** St. John's School D.L.W, Varanasi, **85.4 %** **Apr 2016—Mar 2017**
**High School (ICSE)** St. John's School D.L.W, Varanasi **90.6 %** **Apr 2014—Mar 2015**

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C
**Technologies:** DSA, Machine Learning, Deep Learning, Computer Vision, OOPs, HTML
**Libraries/Frameworks:** Pandas, NumPy, SciKit, Keras, Tensorflow, Flask
**Tools:** GIT, Heroku, Postman API

## EXPERIENCE

**Artificial Intelligence intern at Flipper Code Pvt Ltd.** **Sept 2021— Feb 2022**

- Created projects as per client requirements based on Machine, Deep Learning and Computer Vision.
- Deploying the projects to web applications and APIs using Git, Flask & Heroku.
- Published blogs for the major projects worked on during the internship period.

**Machine Learning Intern at Grroom** **Jun 2021— Jul 2021**

- Machine Learning research works- web scraping, data preparation model selection, model training and improving scores.
- Data Collection and Annotations for various Image processing and Computer vision tasks.

## PROJECTS

**Hybrid Deep Neural Network for Covid-19 Detection through X-ray Images**

- **Technologies Used:** Python, Deep Learning, CNN, CLAHE, Transfer Learning, OpenCV
- Image processing techniques CLAHE, BM3D applied to the dataset containing Covid, Non-Covid and Normal X-ray images.
- Trained on a Concatenated Xception and ResNet50V2 model, along with CNN, to perform 3-class classification with an accuracy and recall score of 97.8% and 99% respectively.

**Crime Prediction, Analysis and Criminal Tracking**

- **Technologies Used:** RNN. LSTM, CNN, OpenCV, Data visualization
- The project detects crime in CCTV videos with the help of RNN, LSTM and Inceptionv3.
- Faces detected in the frames are stored in the database for recognition to reduce manual work which is time-taking.

**Multiclass Classification on Highly Imbalanced Dataset**

- **Technologies Used:** LOF, Correlation Map, SMOTE, Machine Learning, Random Forest Classifier
- Removing Outliers using Inter-Quartile Range (IQR), SMOTE-Tomek Links for handling imbalanced dataset, feature selection using correlation map, Random Forest classifier for classification. Accuracy achieved was 89%.

## PUBLICATIONS

- Published a Research Paper on the project "**Crime Prediction, Analysis and Criminal Tracking**" in International Conference on Emerging Trends in Engineering and Technology (ICETET-2021)
- Blog published on the project "**Multiclass Classification on Highly Imbalanced Dataset**"
  URL- https://www.aitude.com/multiclass-classification-on-highly-imbalanced-dataset/
- Blog published on the project "**Motion Detection with Path Tracking**" which tracks motion of object and plots the path trails.
  URL- https://www.aitude.com/motion-detection-with-path-tracking/

## ACHIEVEMENTS

- Completed my 6-months paid internship with sheer determination and gained experience of working in AI - industry.
- Led my team to win First Prize in Product Launch activity organised by School of Lifelong Learning, GCET (2019-20)
- Organised a quiz competition based on AI and Machine Learning in fest organised by Enthiran, GCET (2020-2021)

## CERTIFICATIONS

- Certified by Coursera for Machine Learning course.
  Credential URL: https://www.coursera.org/account/accomplishments/certificate/7A3LPNB748ZA
- Certified by Huawei under HCIA-AI (2020-2021)

## CO-CURRICULAR ACTIVITIES

- Active member of Technical and Coding club of college and handling its events
- Dance, Art and Craft, Content Writing