

Aakansha Tyagi

Project Engineer | Cyber Security Division | C-DAC Mohali

☎ +91 7906-2090-08

✉ charutyagi.2921@gmail.com

in [linkedin.com/in/aakansha-tyagi-8b0b0014a/](https://www.linkedin.com/in/aakansha-tyagi-8b0b0014a/)

ABOUT

Project Engineer with 1+ years of experience in ML Models and Data Analysis **Threat Hunting Response System of C-DAC Mohali**. Possess PG Diploma in **Big Data Analytics** from C-DAC Bangalore. Seeking to leverage my Mathematical knowledge, Analytics abilities, and ML models development competency in the role of Data Analytics.

EXPERIENCE

Project Engineer, C-DAC Mohali

2020 to Present

- Build an ML model for automatically identifying novel classes of malware with similar behavior, assigning unknown malware to these discovered classes. Techniques used
 - Classification of malware images using VGG16
 - Classification of sandbox's behavioral report
 - Similarity analysis on assembly instructions
- Developed parser modules:
 - Convert honey pot log files into a relational database and ingest them into elastic search clusters.
 - Development of enrichment and correlation engines which ingest data into elastic search in the standard STIX 2.0 data model.
- Implementation of malware repository.
- Trained professional participant from Indian Computer Emergency Response Team (CERT-IN).

PROJECT

Video Captioning - Prof. Swapnil Srivastva

- The purpose of this project is to automatically describe the content of an image is a fundamental problem in artificial intelligence that connects computer vision and natural language processing.
- Video captioning refers to the process of extracting features from video frames using CNN and generating video captions using LSTM.

EDUCATION

CDAC - PGD Big Data Analytics

Bangalore, Karnataka

2019 - 2020

Rajasthan Technical University

Jaipur, Rajasthan B.Tech CSE

2015 - 2019 (Honors)

SKILLS

- **Programming Languages:** Python, R, Java
- **Machine Learning:** SVM, Random Forest, KNN, EDA, Batch Learning, Ensemble Learning, Novelty Detection
- **Deep Learning:** Image classification, Transfer Learning
- **Natural Language Processing:** Text classification, BOW, Word2Vec
- **Tools:** Python, NLTK, Scikit-Learn, RestAPI, tensor flow, SQL(DBMS), Elastic search with log stash, Kibana
- **Platforms:** Windows, Linux, Centos

CERTIFICATIONS

- **Python for ML**
(Great Learning)
- **Machine Learning**
(Cognitive class by IBM)