

# Nikita Chorghe

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## EDUCATION

### University of Texas at Dallas (UTD)

*Master of Science in Computer Science*

May 2023

- *Courses:* Machine learning, Design and Analysis of Algorithms, Data Structure and Special Topics in Computer Science - Data Science

### University of Mumbai, Ramrao Adik Institute of Technology (RAIT)

GPA: 4.00

*Bachelor of Technology in Computer Engineering*

May 2020

- *Courses:* Machine learning, Artificial Intelligence, Data Mining and Warehousing, Database management system, Software Engineering, Big data and Analytics Design and Analysis of Algorithms and Special Topics in Computer Science

## TECHNICAL SKILLS

**Languages:** C, Python, Java, MySQL, HTML5, Bootstrap, Cascading Style Sheets (CSS), PhpMyAdmin

**Operating Systems:** Windows, Linux

**Libraries:** pandas, NumPy, Matplotlib, OpenCV, PyTorch, TensorFlow, SciPy, React, jQuery, Node.js, MongoDB

**Database:** MYSQL, Oracle SQL, MongoDB

## PROJECTS

### Detection and Prevention of Cyber Attacks on Mobile Networks | RAIT, Mumbai

May 2019 – May 2020

- Developed a framework to detect and prevent major attacks such as IMSI (International Mobile Subscriber Identity attack), Identity theft attack, and SMS phishing
- Created as per NIST (National Institute of Standards and Technology) guidelines to ensure detection, prevention, and recovery of stolen/lost data

### Driver Drowsiness Detection Using OpenCV | RAIT, Mumbai

July 2018 – Oct 2018

- Developed a system which makes use of eye blink ratios for detecting the drowsiness
- The experimental results of the proposed system, which is implemented on Open CV environment with a single camera view. Algorithm used is Eye Aspect Ratio
- Presented for video surveillance system shows promising results under good lighting

### Spam Detection | RAIT, Mumbai

July 2019 – Oct 2019

- Propose a new spam detection technique using the text clustering based on Vector space model. This method constructs the spam detection model by the contexts of various kinds of email and find spam more efficiently.
- The experimental results show that precision using this method is better than bogofilter and is equivalent to SVM.

### Movie Recommendation System | RAIT, Mumbai

Jan 2020 – Mar 2020

- Developed a Web Base user-item Movie Recommendation Engine Using Collaborative Filtering by matrix factorizations algorithm.
- The recommendation based on the underlying idea that is if two persons both liked certain common movies, then the movies that one person has liked that the other person has not yet watched can be recommended to him.

### Data Visualization | RAIT, Mumbai

May 2020 – July 2020

- Created an informative website displaying the statistics of Covid-19 cases in India and world using graphs and charts. Technologies used were Charts.js, JavaScript, Bootstrap, Svelte

## PUBLICATION

- Presented "Identity Theft Prediction Using Game Theory," presented at ICACC-2020
- Published "Identity Theft Prediction Using Game Theory," in ITM Web of Conferences, July 2020

## CERTIFICATIONS

- Introduction to machine learning, Kaggle
- Intermediate machine learning by Kaggle.
- Data Visualisation Micro course by Kaggle.
- Python Web Development with Django Framework by Department of Computer Engineering, RAIT.
- Recent Trends in Web Technologies by Department of Computer Engineering, RAIT.

## EXTRA-CURRICULAR ACTIVITIES

- Volunteered in teaching at an orphanage
- Participated in Run for charity marathon and tree plantation events
- Participated in Publicity Team of Indian Society for Technical Education (ISTE - RAIT)
- Event Head for "Tech-tonic" during INNOVISION '2018
- Actively participated in organization managing the cultural fest of Ramrao Adik Institute of Technology