

# Rohan Mandrekar

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## TECHNICAL SKILLS

**Programming Languages:** Python, C++, C, Java

**Frontend Development:** HTML, Bootstrap, CSS, Flutter

**Backend Development & Tools:** Flask, Django, Git, SQL, Selenium, MongoDB, Hadoop, PySpark, Spring, Azure, SpringBoot, AWS

**Computer Vision & Machine Learning :** Numpy, TensorFlow, Pytorch, Keras, Matplotlib, Matlab, OpenCV

**Certifications:** Udacity Deep Learning Nano Degree

## EDUCATION

**The University of Texas at Arlington**

Arlington, Texas

Master's in Computer Science with Specialization in AI

GPA: 3.7/4.0

Jan, 2021 – Dec, 2022

Notable Courses: Computer Vision, Bioinformatics, Neural Networks, Machine Learning, Data Mining

**NMIMS University**

Mumbai, India

*Bachelor of Technology in Computer Engineering*

Aug, 2016 – Apr, 2020

Notable Courses: Design and Analysis of Algorithms, Artificial Intelligence, Discrete Structures, Python, Java, C, C++, Software Engineering

## WORK EXPERIENCE

**The University of Texas at Arlington**

Arlington, Texas

**Graduate Teaching Assistant**

Sep, 2021 – Dec, 2022

- Conducted office hours and review sessions for students to eliminate their doubts and assisted the faculty in proctoring exams for a class of 50+ students for the Theory of Computing course and Data Mining course.
- Graded exams and assignments for 50+ students

**The University of Texas at Arlington**

Arlington, Texas

**Information Technology Assistant**

Apr, 2021 – Sep, 2021

- Singlehandedly automated encryption key upload process using Python Selenium reducing weekly hours by 12.9%
- Set up remote management and encryption on 6+ new devices daily
- Guided 4 employees with software configuration and the encryption process
- Optimized the configuration process accelerating it by 4 times

**CureAssist**

Mumbai, India

**Software Engineer Intern**

Jun, 2020 – Aug, 2020

- Successfully built 2 Dialogflow based chatbots - covid self assessment, patient appointment booking
- Integrated chatbots with backend NodeJS based APIs and MongoDB db for seamless integration with CureAssist app

## PROJECT EXPERIENCE

**Distracted Driver Detection** <https://www.kaggle.com/rohanmandrekar/ml-project>

- Worked on the State Farm dataset in collaboration with 2 others to classify driver activity into one of 10 different classes of distracted action
- Created a Convolutional Neural Network model using Tensorflow Keras which resulted in test accuracy of 91.20%

**Skin Cancer Classification** <http://rm-skin-cancer-detection.herokuapp.com/>

- Developed a web-app using Python Flask with a frontend built using HTML Bootstrap that classifies skin lesions into 7 categories of skin diseases
- Designed a Convolutional Neural Network architecture from scratch using Tensorflow Keras achieving a test accuracy of 95.01%
- Hosted the app using Heroku which is a cloud based platform

## LEADERSHIP EXPERIENCE

**Engineering Student Council - Executive Vice President**

Jan, 2022 – Dec, 2022

- Coordinate between 3 committees and led the remaining officers to conduct 15+ events resulting in 4500 student interactions
- Established the photography committee resulting in 600% increment in volume leading to better posts which raised the ESC social media following and event attendance by 240% and 270% respectively
- Represented over 7400 engineering students to the Office of President and the Dean of Engineering

**Google Developer Student Clubs - Event and Resource Manager**

Sep, 2021 – Dec, 2022