

# Varun Totakura

Florida State University,  
Tallahassee, United States  
Master of Science in Computer  
Science, Fall 2022

System Engineer at TCS

## CONTACT

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## WEB LINKS

<https://github.com/varuntotakura/>

<https://varuntotakura.github.io/>

## SKILLS

Python, C++, SQL, Java, and C

Machine Learning

Google Cloud Platform, Azure

Tensorflow, PyTorch, Scikit

Data Visualization

Computer Vision

Data Processing & Scrapping

## ADDITIONAL SKILLS

Analytical Thinking

Interpersonal Skills

Organization & Prioritization

Problem Solving

Team Leadership

Strong Communication

## HOBBIES

Cooking

Photography

Research

## CAREER OBJECTIVE

Self - directed and motivated developer works effectively in dynamic environments. Desperate to work on Machine Learning and Passionate about learning new technologies.

## EXPERIENCE & CURRENT WORKS

+ **Master of Science in Computer Science at Florida State University**, Tallahassee, Florida, United States (August 2022 - Present)

- Working as a Graduate Research Assistant under two professors Dr. Sonia Haiduc and Dr. Shayok Chakraborty.
- Have received the full tuition waiver from the professors and getting paid on hourly work.
- Working on a Natural Language Processing project with Dr. Haiduc which could help developers while developing any software
- Working on a Computer Vision project with Dr. Chakraborty which will help elderly people for their daily activities

+ **Developer, System Engineer at Tata Consultancy Services Limited**, Hyderabad, India (July 2020 - July 2022)

- Worked collaboratively in team environment to complete given tasks and wrote optimized and extensible code in a DevOps (ServiceNow) & Machine Learning (Azure) environments.
- Undergone many trainings and acquired team skills, industrial skills, and time management skills.
- Received Thirteen Awards for best performance.

## PROJECTS

- Developed Brain Tumor Detection using Convolutional Neural Network in Python as my major project during graduation.
- Self – Driving Car, Vehicle Speed Check, Selfie Drone, Traffic Violation Detection using Computer Vision algorithms and Convolutional Neural Networks in Python.
- Face Recognition, Vehicle License Plate Recognition in Python using Computer Vision and various other Machine Learning and Deep Learning algorithms.
- Chatbot, Voice Assistant, Stock Analysis using Recurrent Neural Networks in Python.
- Automated Snake Game, Web Crawlers and Web Scrapping in Python.

## RESEARCH PUBLICATIONS

- Predicting the Rate of Transmission of Viral Diseases using ARIMA
- Symptomatically Brain Tumor Detection Using Convolutional Neural Networks
- Improved Safety of Self-Driving Car using Voice Recognition through CNN
- Predicting the Rate of Transmission of Viral Diseases using GARCH
- An Integrated Approach to Sentiment Analysis using Machine Learning Algorithms
- Prediction of Animal Vocal Emotions using Convolutional Neural Network
- Prediction of Stock Trend for Swing Trades using Long-Short Term Memory Neural Network Model

## EDUCATION

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- **Graduation:**

Master of Science in Computer Science at Florida State University, Tallahassee, United States, Fall 2022. Enrolled in the following subjects:

1. Deep and Reinforcement Learning
2. Data Mining
3. Advanced Database Systems

**Awards & Honors:** Received Tuition Waiver

**Graduate Research Assistant:**

- **Dr. Shayok Chakraborty** – Under the guidance of the professor, working on a Computer Vision project which will help elderly people for their daily activities
- **Dr. Sonia Haiduc** – Working on developing of an application using Natural Language Processing project with Dr. Sonia Haiduc which could help developers while developing any software

- **Under Graduation:**

Jawaharlal Nehru Technological University - Hyderabad, Guru Nanak Institutions Technical Campus, Telangana, India  
Bachelor of Technology in Computer Science and Engineering, CGPA 8.91, November 2020

**Awards & Honors:** 2<sup>nd</sup> Topper of the College in 2-2 semester

**Extracurricular Activities:** Published many research papers and developed many websites for college events and participated & organized many events, and also participated in National Service Scheme (NSS) events.

**Academic Projects:**

1. Brain Tumor Detection using Convolutional Neural Network in Python – Major Project
2. Dynamic websites for college conference using PHP, Python – Minor Project

- **Intermediate:**

Narayana Junior College, BIETS, Hyderabad, India  
Mathematics, Physics, Chemistry; Percentage 91.4%, May 2016

- **School:**

Narayana Concept School, SSC, Hyderabad, India  
GPA 9.2, May 2014

## TRAININGS & INTERSHIPS

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- Neural Networks and Deep Learning, Coursera: VQBCURE6DJUJ
- Applied Machine Learning in Python, Coursera: CNAUGTVGQ3Z
- End-to-End Machine Learning with TensorFlow on GCP, Coursera: YZR5MXPOLA6R
- Customer Analytics, Coursera: 38HHL76S9CET
- Training and Internship at Hyderabad City Police Cyber Department on Ethical Hacking.
- Internship at Imparta on IOT, and at Johan Brown on Web Design and Development.