

Varun Totakura

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EDUCATIONAL QUALIFICATION

- Completed **Bachelor of Technology in Computer Science & Engineering** in **2020** from Guru Nanak Institutions Technical Campus, affiliated to JNTU-Hyderabad; **CGPA:** 8.91
- Secured 91.4% in **Intermediate (+2)** in **MPC** from Narayana Junior College in **2016**, and **9.2 GPA** in **10th Class** from Narayana Concept School in **2014**

PROFESSIONAL EXPERIENCE

Assistant System Engineer, Tata Consultancy Services, Hyderabad, Telangana; **July 2020–Present**

- Work as a Developer in a ServiceNow project as well as on development of Chatbots and Automations using Machine Learning
- Serve as the team leader for the group of people who are in NextGenAMS program which is a special initiative to identify and automate the routine tasks
- Honoured with “Learning Achievement Award” for learning lot of technologies like ServiceNow, SharePoint, Power Automate, Azure, Google Cloud

PROJECTS

Developments of Intelligent Chatbots and Automations using Machine Learning – NextGenAMS, Tata Consultancy Services; **September 2021–Present**

- Work as developer to develop Intelligent Chatbots which can do necessary operations themselves by getting inputs from the user
- Develop necessary automations using Machine Learning to reduce man power which helps to increase productivity and improve efficiency of product delivery
- Tools Used: Machine Learning, Python, Azure, ServiceNow, REST Protocol

ServiceNow Integrations using REST and Email, Tata Consultancy Services; **December 2020–September 2021**

- As a developer, integrated the ServiceNow instance with other tools and instances using REST Protocol and Email Triggers, which helps in swivelling of data from one instance to another
- Tools Used: ServiceNow, REST Protocol

Brain Tumor Detection using Convolutional Neural Networks, Guru Nanak Institutions Technical Campus; **November 2019–March 2020**

- Collected Data Brain Tumor Symptoms to categorize the symptoms
- Classified the Brain Tumor using Convolutional Neural Networks which helps people to know the brain tumor in advance using symptoms which helps them to get a good treatment
- Tools Used: Python, Machine Learning, PHP, MySQL, HTML, JavaScript, CSS, Bootstrap

TECHNICAL SKILLS

- Programming Languages:** Python, C, Java, C++, JavaScript
- Python Modules:** Tensorflow, OpenCV, Numpy, Pandas, Matplotlib, Scipy, Scikit-learn, PyAutoGUI, LXML, Pygame, Beautiful Soap, Selenium
- Databases:** MySQL, NoSQL
- Scripting Languages:** HTML, CSS, JavaScript, PHP
- Tools:** ServiceNow, Power Automate, Azure, Google Cloud, Google Colab, Jupyter Notebook, Spyder, Visual Studio, R Studio, Brackets and Adobe Photoshop
- Operating Systems:** Windows, Ubuntu (Linux)

RESEARCH WORK

- A book chapter on “Predicting the Rate of Transmission of Viral Diseases Using ARIMA” is going to be published in Springer–Studies in Big Data, Vol. 89, Advanced Soft Computing Techniques in Data Science, IoT and Cloud Computing, pages 415-434, DOI: 10.1007/978-3-030-75657-4_19; **November 2021**
- A research paper on “Predicting the Rate of Transmission of Viral Diseases Using GARCH” is going to be published in Springer–Lect. Notes Electrical Eng., Vol. 789, Emerging Research in Computing, Information, Communication and Applications, pages 413-421, DOI: 10.1007/978-981-16-1338-8_35; **November 2021**
- A research paper on “Traffic Sign Board Detection by Self Driving Cars Using Transfer Learning” was published in International Journal of Creative Research Thoughts (Ref= IJCRT_2012227) Volume-8, Issue-12, Edition, pages 2184-2191; **December 2020**

- A research paper on “A Deep Learning Approach for Cardiac Arrhythmia Detection” was published in International Journal for Research in Applied Science and Engineering Technology (Ref= IJRASET32399) Volume-8, Issue-12, Edition, pages 77-81; **December 2020**
- Published a research Paper which was entitled as “Versatile Learning Models and Applications of Computer Vision: A Survey” in Journal of Innovation in Information Technology, Volume-4, Issue-2, pages 4-9; **December 2020**
- A research paper on “Symptomatically Brain Tumor Detection Using Convolutional Neural Networks” was published in IOP Conference Series Materials Science and Engineering (Web of Science, and Scopus Indexed), Volume 1022, 1st International Conference on Computational Research and Data Analytics (ICCRDA 2020), DOI: 10.1088/1757-899X/1022/1/012078; **October 2020**
- A research paper on “Improved Safety of Self-Driving Car using Voice Recognition through CNN” was published in IOP Conference Series Materials Science and Engineering (Web of Science, and Scopus Indexed), Volume 1022, 1st International Conference on Computational Research and Data Analytics (ICCRDA 2020), DOI: 10.1088/1757-899X/1022/1/012079; **October 2020**
- A research paper on “Recognition of Handwritten Characters using Deep Convolutional Neural Network” was published in International Journal for Research in Applied Science and Engineering Technology (Ref= IJRASET30815) Volume–8, Issue–8, pages 16-20; **August 2020**
- A research paper on “Concepts of Ethical Hacking: A Survey” was published in International Journal of Creative Research Thoughts (Ref= IJCRT_193382) Volume–8, Issue–4, pages 1279-1283; **April 2020**
- A research paper on “An Integrated Approach to Sentiment Analysis using Machine Learning Algorithms” was published in International Journal for Research in Applied Science and Engineering Technology (Ref= IJRASET27486) Volume–8, Issue–4, pages 427-436; **April 2020**
- A research paper on “Prediction of Stock Trend for Swing Trades using Long Short-Term Memory Neural Network Model” was published in International Journal of Scientific and Technology Research (Scopus Indexed) (Ref= IJSTR-0320-31114) Volume–9, Issue–3, pages 1918-1923; **March 2020**
- A research paper entitled as “Prediction of Animal Vocal Emotions using Convolutional Neural Network” was published in International Journal of Scientific and Technology Research (Scopus Indexed) (Ref=IJSTR-0120-28358) Volume–9, Issue–2, pages 6007-6012; **February 2020**
- Published a research Paper entitled as “Selection of Stocks using Relative Strength Index (RSI) in Indian Stock Market for Swing Trades” at 7th International Conference on Innovations in Computer Science and Engineering hosted by Guru Nanak Institutions; **August 2019**

AWARDS AND ACHIEVEMENTS

- Awarded Star of the Month by Tata Consultancy Services for excellent performance; **October 2021**
- Received On the Spot Awards thrice by Tata Consultancy Services for excellent performance in developing ServiceNow integrations, for developing an automation for NextGenAMS program and excellent work on NextGenAMS program; **February, April, and July 2021**
- Ranked 2nd Topper for my excellence in academic studies and for achieving top score in 2-2 of Bachelor of Technology (B. Tech) by Guru Nanak Institutions on the Guru Nanak Institutions College Annual Day Celebrations; **2019**

INTERNSHIPS AND TRAININGS

- Completed a Coursera course **Deep Learning Specialization** taught by Andrew NG; **October 2020**
- Completed a Coursera course Applied Machine Learning in Python from University of Michigan; **September 2020**
- Completed a Coursera course End-to-End Machine Learning with TensorFlow on GCP from Google Cloud; **September 2020**
- Completed a Cyber Smart Program, one-week training with Hyderabad City Police at Hyderabad Police Cyber Cell and graded with A+; **October 2019**
- Trained in Ethical Hacking, IOT application development, Web Development by Imparta at Hyderabad; **June 2019–July 2019**
- Completed a Coursera course Customer Analytics from University of Pennsylvania; **February 2018**
- Completed a Coursera course Big Data Analysis with Scala and Spark; **January 2018**
- Learnt about E-Book design and development during an internship in Johan Brown Pvt Ltd at IT Decode Park in Guru Nanak Institutions; **December 2016–May 2017**

EXTRACURRICULAR ACTIVITIES

- Organized and volunteered at the Springer publication Technical Sessions and Conference at Guru Nanak Institutions, Hyderabad; **August 2018**