

# Varun Totakura

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## SUMMARY

- Passionate Machine Learning, and Data Science professional with a strong foundation in computer science and a proven track record in research and development. Skilled in designing and implementing advanced ML algorithms for complex problem-solving. Excited to contribute to cutting-edge projects and drive innovation.

## EDUCATIONAL QUALIFICATION

- Pursuing **Master of Science in Computer Science** from **Florida State University**, Tallahassee, USA; **CGPA: 3.54** on a scale of 4.0 (**August 2022 – May 2024**)
- Completed **Bachelor of Technology in Computer Science & Engineering** from **Jawaharlal Nehru Technological University**, Hyderabad, India; **CGPA: 8.91** on a scale of 10.0 in **September 2020**

## PROFESSIONAL EXPERIENCE

### **Graduate Research Assistant**, Florida State University, Tallahassee, USA; **August 2022–Present**

- Spearheading the development of an Alzheimer's Disease detection solution in collaboration with Florida State University - Psychology Department and Cornell University - Weill Cornell Medicine.
- Leveraging Deep Learning techniques to predict model correctness.
- Designing a Natural Language Processing solution for Bug Localization.

### **System Engineer**, Tata Consultancy Services, Hyderabad, India; **July 2020–July 2022**

- Worked as a Developer in a ServiceNow project and led development of Machine Learning-based Chatbots.
- Headed NextGenAMS initiative, automating routine tasks to enhance efficiency.
- Recognized with nine awards for best performance along with "Learning Achievement Award" for mastering technologies including ServiceNow, Power Automate, Azure, and Google Cloud.

## PREVIOUS PROJECTS

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

- Created intelligent Chatbots for streamlined operations and user interactions.
- Developed ML-driven automations to optimize productivity.
- Tools: Python, Azure, ServiceNow, REST Protocol.

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

- Integrated ServiceNow with external tools using REST and Email, enabling efficient data transfer.
- Contributed to seamless data flow across different instances.
- Tools: ServiceNow, REST Protocol.

## TECHNICAL SKILLS

- **Programming Languages:** Python, C, Java, C++, JavaScript, Go Lang
- **Python Modules:** PyTorch, TensorFlow, OpenCV, NumPy, Pandas, Matplotlib, SciPy, Scikit-learn, PyAutoGUI, LXML, Pygame, Beautiful Soup, 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

- Published research papers and chapters on advanced ML topics.
- Titles include "Predicting the Rate of Transmission of Viral Diseases Using ARIMA" and twelve more.

## AWARDS AND ACHIEVEMENTS

- Three times Star of the Month, Tata Consultancy Services.
- Five times On the Spot Awards, Tata Consultancy Services.
- Ranked 2nd Topper, Guru Nanak Institutions, **2019**.

## INTERNSHIPS AND TRAININGS

- Completed Coursera courses on Neural Networks, Machine Learning, Customer Analytics, and more.
- Cyber Smart Program with Hyderabad City Police.
- Ethical Hacking, IOT, and Web Development training by Imparta.
- E-Book design and development internship at Johan Brown Pvt Ltd.

**References available upon request**