

# VISHNUPRIYA MURUGAN

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## Summary:

Enthusiastic Technologist with a passion for exploring new domains and a proven ability to adapt quickly. Experienced in Satellite-MAC L2 development and testing, successfully stabilized metrics and data for performance monitoring. Possess hands-on DevOps experience providing support for software.

## Education:

B.Tech, Information Science and Technology (2018-2022) CGPA : 9.49  
College of Engineering, Guindy, Anna University. Chennai – 600 025.

## Work Experience:

- Summer Internship  
Viasat Inc. | ML Team - NLP Project | July-August 2021
- Software Engineer I  
Viasat Inc. | SMAC Team | July 2022 - Present

## Projects:

- **Machine Learning ( Natural Language Processing )**  
Automated pipeline to scrape data from social media platforms and generate insights about consumers opinion on Viasat. Pre-processing, classification and analysis of text.  
Two core modules: Sentiment Analysis with average accuracy of 90% and Topic Extraction  
Tech: *Jupyter Notebook, BERT, Tweepy, Reddit API, Insta-scrape, Selenium, Python*
- **System Testing/QA - Feature Automation Test**  
Jenkins CI/CD, FAT Pipeline tests for VS3 features. Migration pipeline from virtual to FIT in cloudshell. Automation test for Splunk Log Events, redis keys, triggers from other components and SMAC data grant allocations. Data and Control Scale Testing for both VS2 and VS3 softwares.  
Tech: *Jenkins, Cloushell, Splunk API, iperf, Python*
- **Satellite MAC Software Developer**  
**VS2** – Feature to accommodate other components interface connectivity check. Handover failure scenario edge cases. Added new multicast stats.  
Tech: *Perforce, consul-template .ctmpl, LibYa, C, c++*  
**Distributed SMAC and VS3** – Defined new schema designs and implemented streams (thread basis) to be published in databus for performance monitoring. Led the development and optimization of 50% of the metrics module, resulting in improved performance and data accuracy. Control plane stats and bug fixes.  
Tech: *Git, Redis, Docker, Druid, Scrat, Wireshark, yang, avdl, confd cli, c++*
- **Devops Support**  
Splunk, Grafana dashboards. Deployment automated framework and software upgrades. Xmatters alert and on-call support.  
Tech: *Ansible playbook, .yaml*

## Other Relevant Technical Skills:

- Languages in order of proficiency: C++, Python, Java.
- Sound knowledge in network scale investigations and performance statistics.
- Academic works: Interactable Virtual Reality Simulator, Web and Andriod App Development.

## Extra-Curricular Activities:

- Student Representative of IST department 2020-21
- Conducted events and worked as HR in Inter College Symposium ITRIX'20 and 22
- Committee member of ViaSat Women's Alliance – India
- Other interests: Playing Shuttle, Travelling, Watching series and vlogs