

## Contact

Active @: Puppalaguda, Manikonda,  
Hyderabad, Telangana  
7702037134 (Home)  
santoshtvk@gmail.com

[www.linkedin.com/in/santoshtvk](http://www.linkedin.com/in/santoshtvk)  
(LinkedIn)  
[pynfinity.com/welcome/about](http://pynfinity.com/welcome/about)  
(Personal)

## Top Skills

Payment Gateways

Firebase

Cloud Storage

## Languages

Hindi

Oriya

Telugu

English

## Certifications

Certificate of Completion: SQL  
Fundamentals

ANDROID APPLICATION  
DEVELOPMENT

Advance Training in Industrial  
Automation

Certificate of Completion: Java  
Course

Unsupervised Learning - Advance  
Machine Learning

# Engineer. Venkata Santosh Tharigoppala

Software Engineer @ S&P Global | Python Professional | ML  
Enthusiast | Expert in CI-CD, SQL, C++ and Python Web Application  
Development | Data Analysis and Visualizations | Mastered in  
Embedded Systems  
Hyderabad, Telangana, India

## Summary

At S&P Global, my role as a Senior QA Automation Engineer revolves around enhancing software quality and performance, leveraging a robust skill set in CI-CD pipelines, Python, SQL, Databricks and multiple test automation frameworks.

At Signant Health and Votarytech, as Software Engineer, worked on automating and validating the quality and performance of software applications and services for clinical trials, drug supply and patient engagement. I used Python, Robot Framework, REST APIs, SQL, and Azure Cosmos DB to design and implement test scripts and frameworks for various platforms and devices, such as Linux, Android, and Multimedia.

My educational foundation from Birla Institute of Technology & Science, specializing in Embedded Engineering, complements my technical acumen, enabling me to deliver high-quality solutions effectively.

As an enthusiastic and engaged learner in the domains of machine learning and natural language processing, I have a keen interest in developing creative initiatives that leverage artificial intelligence. Through hands-on experimentation, I played with a range of machine learning techniques, such as clustering methodologies and algorithms for recommendation systems, decision trees, regression, and classification. Moreover, I have improved my skills in data analysis and visualization by using Python modules like Seaborn, NumPy, Matplotlib, and Pandas. Having finished an increasing amount of projects, I'm eager to apply my knowledge to more perceptive findings and practical ML/NLP solutions.

---

## Experience

### S&P Global

#### Senior Quality Assurance Automation Engineer

January 2024 - Present (2 years 4 months)

Hyderabad, Telangana, India

Improved Internal Ratings Application Automation to support dynamic nature in multiple environments. Used In-house Python Framework, SQL, Azure Key-Vaults and Databricks.

- Automated 2+ end to end Pytest Financial Projects dealing with documents, Rest API services, and Oracle Database validation.
- Developed Python UI Utilities for ease of testing and report validation.
- Shared Knowledge across team regarding data analytics, reusability and assisted team in building robust and dynamic coding techniques for better streamlined automation.

### Signant Health

#### Software Automation Engineer

May 2021 - December 2023 (2 years 8 months)

Hyderabad, Telangana, India

- Using Robot Framework, Python, SQL and Jenkins, I have developed 6+ completely functional dynamic end-to-end Clinical Trials Automation frameworks for effective testing and deployment processes.
- Utilized Azure API Services, Cosmos DB, SQL Queries, Web Scraping, Postman Scripting, REST and GraphQL API, to implement and enhance automation capabilities.
- Implemented Jenkins CI-CD pipeline with Git repository.
- Integrated Teams, Jira, and Email for Status Reporting.

### Qualcomm

#### Software Engineer

July 2019 - April 2021 (1 year 10 months)

Hyderabad Area, India

Automation for Multimedia in Linux-Enabled and Android based IoT Targets.

- Designed and Implemented Python modules for playback, record and voice operation to validate sound quality and device latency.

- Implemented scripts for Analyzing speech data, Intensity of noise levels, Sound pops and disturbances in amplitude/volume changes of audio.
  - Created Android Applications for Automating Android Devices
  - Performed Audio and VoiceUI Testing
- Key Skills: Python-pyAudio, Android (JDK), Audacity, GIT, Audio Calibration tools.

Votary Softech Solutions Pvt. Ltd.

Software Engineer

June 2019 - April 2021 (1 year 11 months)

Hyderabad Area, India

Software Engineer at Qualcomm Hyderabad

Defence Research and Development Laboratory (DRDL) - DRDO

Embedded Engineer | Project Engineer

July 2016 - June 2019 (3 years)

Hyderabad, Telangana, India

Temporary Employee @ Defence Research & Development Laboratory (DRDL) and Research Centre Imarat (RCI).

Major work Includes:

- Embedded C/C++ and Python scripting
- Tools Exposed: Qt, Eclipse, Xilinx ISE/Vivado
- Debugging issues
- Working with RT kernel
- Linux Shell scripting

Responsibilities Include:

- Development of Aerospace Simulator units in Linux environment, embedded with MIL-STD-1553 and Serial Port communication
- USB/PCI and FPGA card-based ADC-DAC implementation for Aerospace Simulation
- Development of Python and Qt widget/window-based applications
- Working with Linux Command-Line Utilities, Wireshark and Ethernet Communication interfaces.
- Documentation of Technical Details and Representation of Electrical Schematic diagrams in Orcad-Pspice

Galada Power & Telecommunication Ltd

Executive Engineer

September 2015 - July 2016 (11 months)

Silvassa, Dadra and Nagar Haveli

Responsibilities Include:

- Project Execution, Supervision and controlling of allocated manpower for Various Industrial Operation.

(Managed a project team of 25-30 employees)

- Allocating working procedure and targets for sub-ordinates and team, besides assisting them to solve any technical/non-technical issues for reducing plant over-all down-time.

HGS - Hinduja Global Solutions

Customer Relationship Officer

March 2015 - October 2015 (8 months)

Bangalore, Karnataka

Responsibilities Include:

- Timely processing of Customers every possible query, request and complaints regarding airtel network.
- Empathizing and resolving customer's issues, to retain customers.

---

## Education

Birla Institute of Technology & Science, Pilani

Master of Technology - MTech, Embedded Engineering · (2018 - 2020)

GMR Institute Of Technology

Bachelor of Technology (BTech), Electrical and Electronics Engineering · (2010 - 2014)

St joseph high school srikakulam

Tenth, Indian Certificate of Secondary Education · (2007 - 2008)