CURRICULUM VITAE

Full Name: Sowmya Nagasimha Swamy   **Email_Id: sownag@gmail.com**
Contact No: 09869510688/ 9082496223

Career objective:

To work in a stimulating environment where I can apply & enhance my knowledge, skill to serve the firm to the best of my efforts.

Strengths:

- Optimistic and Self confident.
- Leadership quality.
- Always eager to improve my ability.
- Excellent Coordinating nature.

Professional Background

1. **Company: VPM Polytechnic, Thane**
   Designation: Lecturer.
   Tenure: from Aug 2022 –till Date
   Roles and responsibilities: As lecturer my responsibilities were

   a. Conducting Lecture on Computer Department subjects.
   b. Conducting practical.
   c. Assessing Administration related work.
   d. Conducting Tests, seminars.
   e. Counselling Students for curriculum and personal related issues.

2. **Company: TNTI (Telecom and Network Training Institute).**
   Designation: Telecomm Trainer.
   Tenure: from Nov 2012 –June 2013
   Roles and responsibilities: As Trainer my responsibilities were

   a. Conducting Lecture on Telecommunication topics.
   b. Topics like BTS installations and maintenance.
   c. Total GSM related topics.
   d. Topics like Cell site maintenance, passive and active infrastructure.
   e. 2G/3G technology.
   f. Soft skill Training.
   g. Troubleshooting of all the infrastructures at BTS cell site.

3. **Company: Sphere Solutions Pvt. Ltd.**
    Designation: *Project Engineer/Embedded Developer/Trainer.*
    Tenure: From May 2011 – Apr 2012
    Roles & Responsibility: As *a Trainer/Developer my responsibilities were:*

   a. Topics Included were Microcontrollers and its architecture, programming.
   b. LCD, LED, Interrupt, Keyboard, SPI Programming, Interfacing.
   c. Programming language included assembly and embedded C with Keil compilers.
   d. Enhancing the project as per the Users Requirements.
   e. Incorporated Error Handling Mechanism in the Code.
   f. Rectification of Errors in Reports and their Enhancements as candidates Requirements.

4. **K. K. Wagh college of Engineering/polytechnic. Nashik**
    Designation: *Lecturer*
    Tenure: *From Apr 2006-0ct2007*
    Roles and Responsibilities: As a lecturer my responsibilities were:

   a. Conducting the Lectures.
   b. Communications related subjects.
   c. Conducting Unit Test and Seminars of the students.
   d. Counselor for students.

Academic Record:

Course	Institution	Board	Year of passing	Percentage %
M.E (Information Technology)	**Ramrao Adik Institute of Technology, Nerul.**	**Mumbai University, Maharashtra**	**2022**	**9.24 (CGPI)**
B.E. (Electronic and Telecommunication Engineering)	**Vivekananda Institute of Technology, Bangalore**	**Vishweshwariah Technological University, Karnataka**	**2005**	**67**
P.U.C	**Christ College Bangalore, Karnataka**	**Karnataka state Board**	**1999**	**62**
S.S.C	**Rashtriya Vidyalaya, Bangalore**	**Karnataka state Board**	**1997**	**67**

Technical Skills

- High-level Languages: SQL, C, C++, Embedded C, Python.
- Domain   : Machine Learning, Internet of Things, Software Testing, Database Management System, Mobile Application Development, Cloud computing, Data mining, Networking (CCNA), Embedded Systems.

Final year Project:

1. **M E PROJECT:**
   Sentiment analysis Twitter Data using Machine learning method

   Sentiment Analysis is a process of computing, identifying, and categorizing opinion From piece of text and discover if the writer's attitude towards a particular topic or product Is positive or negative. Model works on different types of Twitter input data. The Machine learning model is built with pipeline techniques thereby improving the efficiency Of model. Cross validation method is used to overcome the under-fitting and over-fitting Problems. The model with different classifiers, namely Logistic Regression, Decision Tree, Random Forest, Multinomial Naive bayes, Support Vector and vectorizers namely Count and TFIDF. After the analysis, and voting classifier output it was found that the Combination of TFIDF vectorizer and Random Forest classifier pipeline gives the Maximum accuracy of 96.57 percent and Predict the Tweets in Real-time as Positive or Negative.

2. **B.E PROJECT:**
   Real Time Bi Phase Debugging Station
   NATIONAL AEROSPACE LIMITED (NAL) Bangalore.

   The project involves the software which obtain its input from the FDAU the Flight Data Acquisition Unit that outputs Harward Bi Phase data stream. The project includes the Design of hardware for the simulation of the output stream. The output signal is given to The pic microcontroller to obtain the parameters which are continuously being transmitted To DFDR, the microcontroller is interfaced with 4x4 keypad and LCD display module. It is programmed in such a way that the data is retrieved by pressing any key, here when Ever a particular key is pressed the corresponding data is seen on the display device. The signal from the FDAU to DFDR is transmitted on ARINC 717 protocol, a Standard used by the avionics system.

3. <u>Mini project:</u> **PIC to PIC messaging system**

The project is developed for the messaging system between the two PIC microcontrollers.
When the message is transmitted from one PIC microcontroller the software in it converts
The text into its hex and communicate the same serially to the other PIC using wire.
The PIC at the other end receives the data serially and converts it into parallel and accordingly
displays the same on the LCD and return the acknowledgement to the PIC showing that the
Message has been delivered; next the control is sent to the other PIC to reply to the message sent.

Extra-Curricular Achievements

- Completed an Internship Program Conducted by Think labs SINE IIT Mumbai on Embedded systems with Line follower robotics project.

- Completed a Course on C, C++, And UNIX From Keonics Bangalore.

- Completed a Training on Unified Communication System for Cisco, Avaya, Nortel, Cisco Routing and Switching, Firewall and Security inputs, Cisco IPT, UC systems, Cisco IPCC. Avaya Blue meridian/succession / CS 1000 systems, VOIP fundamentals, Avaya Blue IPT, Avaya RED UC system / IPT/CC systems/ Blue CC troubleshooting and reports. Avaya Blue CCT tools and pop up, Avaya Blue Messaging (call pilot maintenance). Nortel Ethernet switching and Routing, VSP technology. MS Lync fundamentals and awareness. Sniffers –L1, Troubleshooting.

- Completed The Machine learning course from MITU Skillogies Pune.

Papers Published:

1. Security threats in the application layer in IOT applications.

February 2017, DOI:10.1109/I-SMAC.2017.8058395. Conference: 2017 International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC).

2. Sentiment Analysis of Multilingual Mixed-Code, Twitter Data Using Machine Learning Approach.

International Conference on Innovative Computing and Communications. November 2022, Springer Conference Paper. Part of the Advances in Intelligent Systems and Computing book series (AISC, volume 1388)
DOI   https://doi.org/10.1007/978-981-16-2597-8_58

Personal Details:

Name   **:** Sowmya swamy
Date of Birth   **:** 5th October 1981
Permanent Address **:** 703, Vatvruksh CHS, Plot no 36,
         Brahman society, Naupada, Thane (w)-400602.
Languages Known **:** English, Hindi, Kannada, Telugu, and Marathi.
Hobbies   **:** Bonsai Artist, Certified Yoga Trainer, Reading Books, Chess, Terrace
Gardening.

Declaration:

I hereby declare that the above-mentioned details are true as per my belief and
knowledge.

Date: Sowmya Swamy