



DIGITAL PORTFOLIO

Hi, I'm Srividya V 🌟

Software Development Application Engineer at Intel, specializing in AI-driven automation, Python-based systems, machine learning, and large language model solutions that simplify complex workflows and deliver real business impact.

With a Master's degree in Data Analytics and multiple peer-reviewed publications, I enjoy blending research thinking with practical engineering to build scalable, intelligent systems.

This portfolio highlights my work across industry projects, research, and continuous learning.



Gold Medalist – M.Tech

Springer & CRC Press Author

AI & Automation Engineer @ Intel

10+
Enterprise Tools Built

6
Peer-Reviewed
Publications

5+
Intel Recognition
Awards

8+
Years of Academic &
Industry Experience



LinkedIn



Download Resume

Career Objective

To build intelligent, reliable, and scalable AI-driven automation solutions that solve real-world problems and create meaningful impact. I aim to apply my expertise in Python automation, machine learning, and large language models to transform complex processes into intuitive systems, while continuously learning, innovating, and contributing to technology that is truly useful to people and organizations.

Education

M.Tech – Data Analytics

Vellore Institute of Technology, Vellore • 2020 • CGPA: 9.59

B.E – Information Science

B.N.M Institute of Technology, Bangalore • 2017 • 80.08%

Class XII

M.E.S Pre-University College • 2013 • 91.5%

Experience

Intern

[Intel Technology India Pvt. Ltd.](#) • April 2019 – June 2020

- Worked on user posture detection using Time-of-Flight (ToF) sensor data
- Built CNN-based models to classify ergonomic vs non-ergonomic postures
- Integrated visual, audio, and haptic feedback mechanisms for alerts
- Improved user awareness and workplace ergonomics through AI-driven insights

Software Development Application Engineer

[Intel Technology India Pvt. Ltd.](#) • July 2020 – Present

- Designed and delivered enterprise automation solutions using Python, Power Apps, Power Automate, and SharePoint
- Built internal tools to streamline workflows, reporting, and decision-making
- Applied machine learning techniques for data-driven analysis and insights
- Developed LLM-based solutions for intelligent automation and natural language interaction
- Collaborated in Agile teams to deliver scalable, maintainable, user-centric applications

Technical Skills

Programming Languages

Python C++ R Java (Basics) JavaScript HTML CSS

Frameworks & Application Development

Svelte FastAPI Flask Streamlit Tkinter

AI, ML & LLM Stack

TensorFlow Keras Scikit-learn NumPy Pandas NLTK OpenAI LiteLLM LangGraph
Pydantic

Databases & Data Stores

PostgreSQL MongoDB Cassandra Neo4j

Tools, Platforms & Automation

Power Apps Power Automate SharePoint OpenWebUI Tableau

Domains & Methodologies

Machine Learning Data Analysis Natural Language Processing Large Language Models

AI-Driven Automation Agile (Scrum) DevOps Waterfall



Projects

Academic Projects

Implementation of a Secure Private Cloud

B.E Final Year Project • May 2017

Institute: **ISTRAC, Bangalore**

- Designed a secure private cloud using virtual machines and OwnCloud
- Enabled controlled file sharing within a private community and selective public access
- Focused on access control, data security, and system scalability

Private Cloud

Virtualization

Security

Enhanced CURE Algorithm using K-d Tree

April 2019

Institute: **VIT, Vellore**

- Implemented the CURE clustering algorithm optimized using K-d Tree data structure
- Improved clustering efficiency for massive datasets with reduced time complexity
- Focused on scalability and performance optimization

Clustering

CURE Algorithm

K-d Tree

Predicting Basketball Team Winning Rate using Machine Learning

April 2019

Institute: **VIT, Vellore**

- Performed comparative analysis of multiple machine learning algorithms on basketball datasets
- Identified the best-performing model to predict team winning rates
- Visualized insights and results using Tableau dashboards

Machine Learning

Prediction Models

Tableau

Industry & Enterprise Projects (Intel)

Power Apps

- Internal Conference Management System (paper submission, mentor assignment, reviews, winner selection)
- Issue Tracking Systems
- System Technology Pipeline Tracker
- Customer Adoption Tool
- System Estimation Tool
- Project Scheduler and Tracker
- OKR Dashboard Tracker
- Design Review Feedback Portal
- Find the Vendor Application

Low-code

Enterprise Apps

Process Automation

Power Automate

- Automated generation of custom Tracking IDs for submitted papers
- Automated export of PowerApps dashboards into structured Excel reports

>_ Python & AI Automation

- Automated email communication for selected papers and demos to relevant teams
- Natural language interface to query and interact with Excel files using LLMs
- Board Design Review automation using Python and machine learning techniques
- SEED Simulation automation using Python, Power SI, and TCL

Python Automation

Machine Learning

LLMs

Publications

Sentiment Analysis on Kerala Floods

Springer • ICCC • 2020

Sentiment Analysis

Twitter

Hashtag Analysis

Flood Analysis

[Springer Link](#) [DOI](#) [Cite \(BibTeX\)](#)

AgentG: An Engaging Bot to Chat for E-Commerce Lovers

Springer • ADML • 2021

E-commerce

Chatbot

NLTK

Keras

Deep Neural Networks

[Springer Link](#) [DOI](#) [Cite \(BibTeX\)](#)

TagIT: A System for Image Auto-tagging and Clustering

[Automatic Image Tagging](#)

[CNN](#)

[Pre-trained Models](#)

[Fashion MNIST](#)

[t-SNE](#)

[Springer Link](#) [DOI](#)

Role of Big Data in Supply Chain Management

Springer • Book Chapter • 2022

[ERP](#)

[SCM](#)

[Big Data](#)

[Statistics](#)

[Big Data Analytics](#)

[Springer Link](#) [DOI](#)

Iterative Parameterized Consensus Approach for Crime Analysis

Springer • IMMI • 2021

[Clustering](#)

[Consensus Clustering](#)

[K-Means](#)

[Neo4j](#)

[NoSQL](#)

[Springer Link](#) [DOI](#)

Role of Blockchain in the Music Industry

CRC Press (Taylor & Francis) • 2022

[Blockchain](#)

[Music Industry](#)

[Computer Science](#)

[Engineering & Technology](#)

[Publisher Link](#) [DOI](#)

Awards & Achievements



Academic Excellence

- **VTU Rank Holder – VI Semester**, Bachelor of Engineering
- **Distinction Award** for securing First Class with Distinction in all eight semesters of Bachelor of Engineering
- **GATE Qualified** (Graduate Aptitude Test in Engineering), 2018
- **Best Paper Award** for the research paper "*Sentiment Analysis on Kerala Floods*"
- **Gold Medalist**, Master of Technology, Vellore Institute of Technology
- **Mr. V. S. Athmanathan (Auditor) Endowment Award** for Best Academic Performance (2019–2020)
- **Certificate of Appreciation** for authoring the paper "*Agent G: An Engaging Bot to Chat for E-commerce Lovers*", ICADML 2020
- **Merit Scholarship** for outstanding academic performance for two consecutive years (2018–2019 & 2019–2020)

Professional Recognition – Intel Technology India Pvt. Ltd.

- **Division Recognition Award** for demonstrating *Customer First Mindset* by creating an automated tool for rework document generation, significantly improving efficiency, consistency, and accuracy.
- **Division Recognition Award** for showcasing *Quality* through the successful delivery of a **Board Design Review Automation Tool**.
- **Division Recognition Award** for demonstrating *Customer First Mindset* by architecting and delivering the **Debug Acceleration Card (DAC)**, enabling remote debugging of RVPs, saving months of debug cycles, and enhancing RVP Nest capabilities through remote probing, jumper configuration, and logic analyzer access.
- **Recognized for the successful execution** of the *2nd Intel System Hardware Summit*, demonstrating strong results-driven ownership and execution excellence.



Recognized and rewarded for contributions to the *Geek Alert Program*, enabling Platform Hardware Architecture Specification Generation using Agentic AI.



★ Recognized by Intel India President & VP, Client Computing Group

For passion and initiative in learning system hardware and applying **AI, Agents, and Automation** to deliver an innovative **Bosch Agent**.

Workshops & Certifications

👤 Workshops & Seminars

Presenter, First International Conference on Advances in Distributed Computing and Machine Learning (ICADML 2020)
January 2020

Presenter, 17th International Conference on Science, Engineering and Technology, Vellore Institute of Technology
November 2018

Workshop on Predictive Analytics, VIT University
September 2018

Presenter, University Round – IET PATW (Technical Presentation Competition)
March 2017

Workshop on Python, Indian Institute of Science (IISc), Bangalore, conducted by IEEE
August 2016

✅ Certifications

Cambridge English Level 1 Certificate ESOL International (Business English)

February 2014

Certificate of Completion – Workshop on *ChatGPT, DeepSeek, and Other AI Tools for Productivity*

Indian Institute of Science (IISc), Organized by Aylence in association with RHAPSODY 4.0

6–7 December 2025

Get in Touch

If you'd like to connect, collaborate, or discuss opportunities, feel free to drop me a message below.

Subject

Subject

Message

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