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+	6	5+	8+
Enterprise Tools Built	Peer-Reviewed Publications	Intel Recognition Awards	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%

Class X

B.P. Indian Public School (ICSE) • 2011 • 86.7%

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

Secure Private Cloud Implementation

ISTRAC, Bangalore • May 2017

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

Private Cloud Virtualization Security

Enhanced CURE Algorithm using K-d Tree

VIT, Vellore • April 2019

- Implemented CURE clustering optimized using K-d Tree
- Reduced time complexity for clustering massive datasets
- Improved scalability and clustering performance

Clustering CURE K-d Tree

Basketball Team Winning Rate Prediction

VIT, Vellore • April 2019

- Compared multiple ML models on basketball datasets
- Selected best-performing algorithm for win prediction
- Visualized results using Tableau dashboards

Machine Learning | Prediction | 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

Workflow Automation | Reporting

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

Springer • DEIC • 2021

Automatic Image Tagging | CNN | Pre-trained Models | Fashion MNIST | t-SNE

Springer Link | DOI | Cite (BibTeX)

Role of Big Data in Supply Chain Management

Springer • Book Chapter • 2022

ERP | SCM | Big Data | Statistics | Big Data Analytics

Springer Link | DOI | Cite (BibTeX)

Iterative Parameterized Consensus Approach for Crime Analysis

Springer • IMMI • 2021

Clustering | Consensus Clustering | K-Means | Neo4j | NoSQL

Springer Link | DOI | Cite (BibTeX)

Role of Blockchain in the Music Industry

CRC Press (Taylor & Francis) • 2022

Blockchain | Music Industry | Computer Science | Engineering & Technology

Publisher Link | DOI | Cite (BibTeX)

Awards & Achievements

Academic Excellence

- **VTU 1st Rank Holder – VI Semester**, Bachelor of Engineering
- **Distinction Award** for securing First Class with Distinction in all eight semesters of Bachelor of Engineering

- **Best Project Award** for the final year B.E project *"Implementation of a Secure Private Cloud"*
- **Best Presentation Award** for the final year B.E project *"Implementation of a Secure Private Cloud"*
- **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

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

Certifications

Formal Certifications

Cambridge English Level 1 Certificate ESOL International (Business English)
February 2014

LinkedIn Learning – Professional Courses

Power Apps: Building Data-Driven Apps
Issued March 2021

Mistakes to Avoid in Machine Learning
Issued January 2021

Python GUI Development with Tkinter
Issued October 2020

Using Python for Automation
Issued August 2020

Learning Python
Issued July 2020

Neural Networks and Convolutional Neural Networks – Essential Training
Issued July 2020

Get in Touch

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

Subject

Subject

Message

Write your message here...

Send Email

This will open your default email client.