

# SRI VATHSAN M M

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## Education

### Amrita Vishwa Vidyapeetham, Chennai

October 2022 – May 2026

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence) - 8.58/10.0

Chennai, Tamil Nadu

### Indian Institute of Technology, Madras

May 2023 – December 2027

Bachelor of Science in Data Science (Online Degree) GPA: 7.5/10.0

Chennai, Tamil Nadu

### Vellamal Vidyalaya, Annupanadi

June 2021 – July 2022

Higher Secondary School(XII) - 78%

Madurai, Tamil Nadu

## Projects

### Pali-to-English Translation | TensorFlow, Python, LSTM, Transformer

November 2024

- Engineered and evaluated LSTM and Transformer models for translating 150,000 Pali-English sentence pairs.
- Delivered 97.65% accuracy with Transformer models, significantly outperforming LSTM (loss: 0.2719 vs. 0.7190).
- Enhanced translation accuracy by over 15% through rigorous model optimization, surpassing baseline LSTM performance.

### Bayesian Meta-Learning for Banknote Authentication | PyTorch, Bayesian methods

August 2024

- Deployed Bayesian meta-learning in PyTorch to classify banknotes as authentic or forged.
- Reduced misclassification rates by 30% on the Banknote Authentication dataset, improving classification algorithms.
- Harnessed probabilistic reasoning and deep learning techniques to boost performance.

### Ultrasound Nerve Segmentation Using UNet Architecture | TensorFlow, UNet

August 2024

- Optimized a UNet-based model for ultrasound nerve segmentation, achieving 92.5% accuracy.

### Advancements in Human Emotion Detection | TensorFlow, CNN-LSTM, EfficientNet

August 2024

- Bench marked ResNet, CNN-LSTM, and EfficientNet, achieving 85.71% accuracy with ResNet.
- Boosted emotion detection by 20% using CNN-LSTM for spatiotemporal features.
- Used transfer learning to enhance performance in low-resource settings, increasing accuracy by 10% on limited datasets.

### Growth Analysis | TensorFlow, Numpy, Pandas

December 2023

- Built machine learning models to predict GDP growth and population density with 99% accuracy.
- Analyzed 220+ features and 3,000+ records to extract actionable insights.
- Supported policy decisions impacting sectors contributing to 70% of regional GDP.

### Crop Analysis, Prediction, and Pest Detection System | Scikit, TensorFlow

August 2023

- Designed and implemented models for crop prediction and pest detection across 9 classes, achieving 95% accuracy.
- Amplified prediction accuracy by 20% with feature-rich datasets.
- Accelerated agricultural planning by 30% and improved pest detection accuracy by 25%, benefiting 500+ farmers.

## Technical Skills

**Languages:** Java (Basic), Python, C, SQL, HTML, CSS, Javascript, ReactJS

**Machine Learning Packages:** TensorFlow, PyTorch, Scikit-Learn, NumPy, Pandas

**Developer Tools:** VS Code, Google Colab, MySQL, IntelliJ

**Soft Skills:** Leadership, Problem Solving, Public Communication, Event Management

## Achievements

### Smart India Hackathon

2023

Govt. Of India

- Qualified University Level Hackathon.
- Led the creation of a water footprint tool in a web app with 20 questions to track water use, helping users become more aware and engaged.

Leadership

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<b>Office Bearer - Neuronix AI Club</b> <i>Amrita Vishwa Vidyapeetham</i>	July 2024 - current
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Certifications

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<b>Problem Solving using C Programming - NPTEL</b>	April 2023
<b>The Joy of Computing using Python - NPTEL</b>	April 2024
<b>Computer Graphics</b>	September 2024
<b>Computer Vision - NPTEL</b>	October 2024