

# Sree Vishnu A S

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## SKILLS

- **Languages:** C++, Java, C, Python, Rust
- **Frameworks:** HTML and CSS, Pytorch, TensorFlow, Keras
- **Tools/Platforms:** MySQL, Google Colab, GitHub
- **Soft Skills:** Problem-Solving Skills, Leadership, Project Management, Adaptability

## PROJECTS

- **S.A.F.E.R.A - Spatiotemporal Anomaly Detection Pipeline** | [Link](#) Jan 2025 - Jul 2025
  - Built an **unsupervised anomaly-detection pipeline** using CNNs, **ConvLSTM Autoencoders**, and GAT for spatio-temporal video analysis.
  - Extracted spatial features with CNNs, modelled temporal patterns via ConvLSTM, and constructed cosine-similarity **KNN graphs** for **GAT processing**.
  - Applied One-Class Loss to learn compact normal embeddings and detect anomalies via reconstruction error and embedding distance.
  - Tech: TensorFlow, Keras, CNNs, ConvLSTM, GAT, Scikit-Learn, Seaborn.
- **Multi-Core Load Master** | [Link](#) Jan 2025 - Jun 2025
  - Built a **multi-strategy load balancer** using RR, Weighted RR, LWR, and Least-Connection with efficient heap-based scheduling.
  - Added an **SMA-based prediction module** to forecast short-term processor load for smarter task assignment.
  - Implemented **ML-based load prediction (XGBoost, MLP)** achieving **~85% accuracy** in selecting the optimal processor.
  - Tech: C++, Python, XGBoost, Scikit-Learn, MLP/Neural Networks, GitHub
- **AI-Powered Diabetes Meal Planning System** | [Link](#) Jan 2025 - Jun 2025
  - Developed an AI-driven diabetes meal planning system that generates medically-aware, personalized meal recommendations.
  - Integrated **real-time nutritional analysis** using the USDA Food Data Central **API and dynamic AI** responses via Google Gemini.
  - Tech: Python, HTML, CSS, JavaScript

## CERTIFICATES

- Introduction to Machine Learning, IIT Madras | [Link](#) Jul 2025 - Nov 2025
- Red Hat System Administration, Red Hat Academy | [Link](#) Jun 2025 - Aug 2025
- Design and Analysis of Algorithms, CMI | [Link](#) Jan 2025 - May 2025
- Bits and Bytes of Computer Networking, Google | [Link](#) Jul 2024 - Dec 2024
- Computer Architecture and Assembly Lang, IIT Delhi | [Link](#) Jul 2024 - Dec 2024

## ACHIEVEMENTS

- **Secured top 20% in LeetCode** Oct 2025  
Secured my all-time best rank of 3200 in Biweekly Contest-164 and contest ranked at top 20%.
- **Achieved All India Rank 48 in Design and Analysis of Algos Exam** Apr 2025  
Among 5k+ candidates achieved All India Rank-49 in DAA, NPTEL exam conducted by IIT Madras.
- **Secured Top 1% in Introduction to Machine Learning** Nov 2025  
Ranked in the top 1% at the national level among 7000 certified candidates.

## EDUCATION

- **Lovely Professional University** Punjab, India  
*Bachelor of Technology - Computer Science and Engineering; CGPA: 8.4* Since August 2023
- **Paavai Vidhyashram Global CBSE School** Namakkal, Tamil Nadu  
*Intermediate; Percentage: 90%* Apr 2021 - Mar 2023
- **Notre Dame of Holy Cross, CBSE** Salem, Tamil Nadu  
*Matriculation; Percentage: 95.8%* Apr 2019 - Mar 2021