

Sharon Varghese

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Professional Summary

Computer Science and Engineering postgraduate with expertise in Machine Learning, Deep Learning, NLP, Sentiment Analysis, and Data Analytics. Strong research, programming, and problem-solving skills with a passion for teaching and academic development. Seeking an Assistant Professor position to contribute to student learning, research, and innovation in Computer Science.

Educational Qualifications

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|---|----------------------------------|
| <ul style="list-style-type: none">• Master of Technology in Computer Science
LBS INSITUTE OF TECHNOLOGY FOR WOMEN, POOJAPURA
APJ Abdul Kalam Technological University | 2024 – 2026
<i>CGPA: 8.95</i> |
| <ul style="list-style-type: none">• Bachelor of Technology in Computer Science
COLLEGE OF ENGINEERING ARANMULA, PATHANMTHITTA
APJ Abdul Kalam Technological University | 2019 – 2023
<i>CGPA: 7.45</i> |

Research Interests

- Machine Learning & Deep Learning
- Natural Language Processing
- Multimodal Emotion Recognition
- Sentiment Analysis

Technical Skills

- **Programming Languages:** JAVA, Python, C, SQL, HTML, CSS.
- **Tools:** Jupyter Notebook, Google Colab, Power BI.
- **Database Technologies:** MySQL, MongoDB.

Experience

- **Software Testing Intern — Srishti Innovative Educational Services**
May 2025 - June 2025
 - Designed and executed manual test cases for web and mobile applications.
 - Performed manual testing including functional testing, regression testing, and UI testing.
 - Identified and documented defects with detailed reproduction steps and test evidence.
 - Automated test scenarios using Selenium WebDriver to reduce repetitive manual effort.
 - Validated bug fixes and ensured application stability across different builds.

- **Full Stack Development Intern — Mentorow Technologies**

Sept 2023 - June 2024

- Programmed & deployed website using MERN.
- Created Front-end projects.
- Experience in API testing using Postman.

Projects

- **Context-Aware Multimodal Emotion Recognition** 2026
Python, PyTorch, BERT, HuBERT, ResNet-18, Context Transformer, MELD Dataset
 - Developed a deep learning model for emotion recognition using text, audio, and visual modalities with conversational context.
 - Employed BERT, HuBERT, ResNet-18, and Transformer-based fusion for multimodal feature extraction and classification.
 - Evaluated the model on the MELD dataset to improve emotion prediction accuracy.
- **Twitter Sentiment Analysis on Movie Reviews** 2025
Technologies: Python, Twitter API v2, TextBlob
 - Developed a customized sentiment analysis model to predict movie sentiment as positive, negative, or neutral.
 - Implemented real-time data extraction and processing.
- **Credit Card Fraud Detection:** 2024
Technologies: Python, Logistic Regression
 - Implemented a fraud detection model using ML algorithms, achieving 85% accuracy.
 - Performed data preprocessing, feature selection, and model optimization.
- **E-commerce website:** 2024
Technologies: MERN stack, Stripe, Vercel
 - Built a full-stack e-commerce website using the MERN stack
 - Integrated Stripe for secure payment processing.
 - Used Redux Toolkit for state management.
- **Skin Cancer Prediction:** 2023
Technologies: Python, React.js, CNN
 - Created a deep learning model to classify skin cancer images with 85% accuracy.
 - Utilized CNN for improved detection rates.
- **Alzheimer Patient Monitoring System** 2022
Technologies: Python, React.js
 - Innovated a system to monitor Alzheimer's patients using IoT-based sensors.

Certifications

Cloud Computing and Distributed System -NPTEL	2025
Basics of AWS ML - Coursera	2021
Basics of OpenCV - ShapeAI	2020

Publications

- Sharon Varghese and Dr. Smitha ES, "Twitter Sentiment Analysis on Movie Reviews," in Proceedings of the International Conference on Sustainable Technologies and Sciences (ICSTS 2025), ISBN: 978-93-6786-299-5.