

Meenakshy S

Kuzhivilakam near Govt HS Trivandrum | Kerala, PO 695141 | +91 8848564897 | meenakshyshibu17@gmail.com

EDUCATION

Amrita Vishwa Vidyapeetham , School of Computing ,Coimbatore,Tamil Nadu <i>Btech in Computer Science Engineering in Artificial Intellegence</i> Cumulative GPA: 7.55/10	June 2026
Arya Central School ,Trivandrum,Kerala XII(CBSE): 95 percentile	June 2021
Sivagiri Sree Narayana Senior Secondary School , Trivandrum,Kerala X(CBSE): 94 percentile	June 2019

TECHNICAL SKILLS

Skilled Programmer (Python,Matlab)

- **Machine Learning:** Supervised and Unsupervised Learning.
- **Deep Learning:** Neural Networks, Deep Learning Modals.
- **Database Management Systems (DBMS):** SQL, Normalization.
- **Signal Processing:** Transform.
- **Data Structures/Algorithms**
- **Natural Language Processing**

NON TECHNICAL SKILLS

Time Management, Verbal and Written Communication, Active Listening, Creative Thinking, Decision Making, Self-Motivation, Resilience, Ethical Responsibility

PROJECTS

Alzheimer's Classification using EEG

- Developed a comprehensive framework for early Alzheimer's disease detection by preprocessing EEG signals with wavelet-based adaptive filtering to reduce noise and artifacts.
- Extracted and integrated features from time domain, frequency domain, and time-frequency domain to create a robust signal representation.
- Implemented a CNN-based classification model to analyze EEG signals and achieve high diagnostic accuracy through advanced machine learning techniques.

Abusive Tamil and Malayalam Text Detection

- Developed a deep learning model to detect abusive comments in Tamil and Malayalam from YouTube.

- Used XLM-RoBERTa embeddings with a BiLSTM-based autoencoder for feature learning.
- Applied text preprocessing techniques like tokenization, stemming, and augmentation.
- Achieved 94% accuracy for Tamil and 96% for Malayalam, enhancing online content moderation.

Hospital Management System (DBMS): Developed an interactive hospital database system with MySQL, focusing on query optimization and real-time data consistency.

ACTIVITIES

Served as School Vice Captain in Grade 10, leading and organizing various school events, managing a team of peers, and fostering teamwork among students. Represented the school in inter-school dance competitions, winning A grade in the cultural fest.

INTERESTS AND HOBBIES

- Reading books.
- Gardening as a form of relaxation and nurturing creativity.
- Practicing dance styles for self-expression and fitness.
- Listening to and exploring different genres of music for inspiration.

CERTIFICATION

IndustriAI 24hr Hackathon – IIT Madras (*Jan 2025*)

- Awarded a participation certificate for competing in a 24-hour AI hackathon.

Neural Nexus'24 AI/ML Hackathon – Vijaybhoomi University (*2024*)

- Participated in an AI/ML hackathon.