



# VALANTINA BHARATHI M

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## Madras Institute of Technology

B. Tech in Artificial Intelligence and Data Science  
CGPA – 8.54

Oct. 2022 – May 2026

Chennai

## CEOA Matriculation Higher Secondary School

Secured 96% in HSC

June 2020 – March 2022

Madurai, TN

## Keren Matriculation Higher Secondary School

Secured 97.6% in SSLC

June 2019 – March 2020

Madurai, TN

## Skills

**Technical Skills:** Python — C++ (Beginner) — SQL (Intermediate) — HTML/CSS (Beginner) — Flask — Data Structures — Object-Oriented Programming (OOP) — Artificial Intelligence — Machine Learning — Data Science

**Soft Skills:** Leadership — Teamwork — Problem-Solving

## Projects

### Inventory Management System

Dec. 2023

- Developed a web-based system to manage inventory, suppliers, and customer orders using object-oriented PHP and MySQL.
- Implemented CRUD operations, real-time stock tracking, and a responsive UI.
- Tools & Technologies: PHP (OOP), MySQL, XAMPP, Bootstrap

### Voice-Assisted Chess Bot (NLP)

May 2024

- Created an interactive chess-bot controlled via voice commands, integrating natural language processing for intuitive gameplay.
- Tools & Technologies: SpeechRecognition, PyAudio, python-chess

### Advanced Vehicle Detection System

May 2024

- Developed an AI-powered vehicle analysis tool using YOLOv5 and Gemini API, featuring real-time detection, night-to-day conversion using CycleGAN, and automated scene description.
- Tools & Technologies: Streamlit, PyTorch, OpenCV, TensorFlow (CycleGAN), Google Gemini API

## Internship

### EDGE MATRIX CORPORATION – MADURAI

June 2024 – July 2024

Gained hands-on experience in optimizing CNN models for image classification using transfer learning and hyperparameter tuning. Utilized Grafana for real-time monitoring and visualization of performance metrics by configuring dashboards and analyzing trends. Applied machine learning techniques such as preprocessing, model selection, and evaluation using Scikit-learn, TensorFlow, and PyTorch

## Certifications

- [Data Science Foundations – Google \(collab. course\)](#)
- [Machine Learning online course – Great Learning](#)
- [Machine Learning online course – Simplilearn](#)
- [Business Analytics with Excel online – Simplilearn](#)

## Technical Events & Achievements

- Participated in Samhita'24 – National Level Symposium, Madras Institute of Technology
- Actively participated in LeetCode challenges, focusing on data structures and algorithms, for a period of over 120 days, earning consistent progress badges