

Shreenithi Tindivanam Varadharajan

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EDUCATION

California State University, Long Beach (CSULB)

Expected: May 2026

Master of Science in Computer Science CGPA – 3.67/4

Coursework: Advanced Software Engineering, Advanced Programming Languages, Advanced Analysis of Algorithms

Sathyabama Institute of Science & Technology (SIST), Deemed University, Chennai

May 2024

Bachelor of Engineering in Computer Science CGPA - 9.78/10

Gold Medalist | Merit Award & Chancellor's Scholarship (4 years)

TECHNICAL SKILLS

Languages: Java, Python, C, HTML5, CSS3, JavaScript, Angular

Framework/Tools: NetBeans IDE, Visual Studio, XAMPP, SQL, MongoDB, Microsoft

PROJECT & RESEARCH

Brain Tumor Detection using CNN and Data Augmentation (Machine Vision)

Jan 2025 – Present

California State University Long Beach

California, USA

- Built a CNN-based classifier to detect tumors from brain MRI images using TensorFlow and Keras.
- Applied real-time data augmentation techniques to increase dataset diversity and reduce overfitting.
- Integrating validation tracking and automated model checkpointing to monitor training performance.
- Evaluating results using accuracy/loss curves and confusion matrix to measure classification effectiveness.

Real-Time Object Detection Android App (Research)

Sept. 2023 – Feb 2024

Sathyabama Institute of Science and Technology

Chennai, India

- Designed and developed a real-time object detection system using deep learning and computer vision to identify vegetables from images and videos.
- Trained a custom dataset and implemented SSD MobileNetV2 FPN Lite using TensorFlow for high-accuracy recognition.
- Implemented model conversion using TensorFlow Lite to optimize deployment on Android devices.
- Integrated real-time camera feed processing with model inference in the mobile app.
- Deployed the Android app to facilitate language-independent vendor-customer interaction by displaying vegetable names in English, bridging communication gaps in multicultural markets.
- **Published** a paper on the project in the “*International Conference on Advanced Computing and Communication Systems (ICACCS)*”, 2024.

Expense Tracker Web Application (Angular + MongoDB)

Jul-Oct 2022

- Built a responsive Angular application for managing household transactions.
- Created a responsive frontend using TypeScript and Angular, with a MongoDB backend for secure storage of data.
- Designed modular components for expenses, dashboard, and analytics using Angular CLI.
- Added basic authentication routing guards to restrict access to certain routes.

EXPERIENCE

Java Intern - Customer Feedback Management System

Jan-May 2023

HCL Technologies

Chennai, India

- Built a desktop application using Java Swing, JDBC, and XAMPP to manage and visualize customer feedback data for an IT organization.
- Added search functionality to query feedback entries using keyword matching.
- Applied exception handling to avoid system crashes and provide meaningful error messages.
- Used Apache NetBeans IDE 16 for efficient development and debugging, improving productivity and maintainability.

CERTIFICATIONS

- **Google Cybersecurity** (Grow with Google) – Professional Certificate (8Courses), February – May 2024
- **Programming in Java** - Indian Institute of Technology (IIT) Kharagpur, National Programme on Technology Enhanced Learning (NPTEL) Online Course, January - April 2023
- **JavaScript** – Guvi Geek Networks, IITM Research Park – February 2023
- **Angular**, Credo Systemz, Chennai, October 2022