

# Ilamugil Balasubramaniam

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## EDUCATION

**NANDHA COLLEGE OF TECHNOLOGY**  
BE IN COMPUTER SCIENCE AND ENG  
June 2023 | Erode,TamilNadu,IND  
CGPA: 8.17 / 10

**INDU INTERNATIONAL SCHOOL**  
Grade 12 in Computer Science  
May 2019 | Erode,TamilNadu,IND  
Percentage: 64

**RD INTERNATIONAL SSCHOOL**  
Grade 10  
April 2017|Erode,TamilNadu,IND  
CGPA: 9.4 / 10

## LINKS

Github:// mugil0095  
LinkedIn:// ilamugil-balasubramaniam  
LeetCode// Mugil3004  
HackerRank:// ilamugil400300

## COURSEWORK

Certification  
• Salesforce Developer Virtual Internship  
• Project on A Gesture-Based Tool for Sterile Browsing of Radiology Images  
• Python Nano Degree Certification  
• SQL Basic, Intermediate, Advance  
• AWS Certifications  
• Software Engineer Certificate

## SKILLS

Programming Languages:  
• Java • Python • HTML • CSS  
• SQL • Javascript  
Tools:  
• Machine Learning • Mysql • Netbeans  
• MS SQL Server • Jira • Eclipse • Github  
• Visual Studio code • IDE • IntelliJ  
Libraries:  
• Keras • Tensorflow • OpenCV • Flask  
• Numpy • Pandas • Pytorch  
Familiar:  
• AWS, GCP, Azure • DSA • SDLC • Agile  
• OOPS • PHP • MongoDB • Docker  
• ReactJS • NodeJS • AI • NLP • API  
Other  
• Problem Solving • Teamwork • Analytics

## EXPERIENCE

**SMARTINTERNZ - SALESFORCE | SALESFORCE DEVELOPER INTERN** AUG 2023 - OCT2023 | Erode,TamilNadu

- Designed and Executed **custom solutions using Apex, Visualforce, and Lightning Components**. Tailored Salesforce applications to specific business needs, **improving overall system efficiency**.
- Collaborated on **seamless integration** of Salesforce with other systems. Ensured cohesive workflow and enhanced system interoperability.
- Created and optimized **workflows, triggers, and validation rules**. Contributed significantly to the development and maintenance of efficient Salesforce applications.

## PROJECTS

**REALTIME DROWSINESS IDENTIFICATION BASED ON EYE STATE ANALYSIS** TECH: Python(ML), OpenCV, TensorFlow

- Curated diverse driver's eye image dataset; employed **OpenCV for feature extraction** including blink rate and eye closure duration.
- Implemented **TensorFlow-based algorithms** for real-time classification of eye states, achieving up to **89% accuracy**.
- Seamlessly integrated the system with existing **driver monitoring tech**, introducing **visual alerts and haptic feedback** for immediate intervention.

**A GESTURE-BASED TOOL FOR STERILE BROWSING OF RADIOLOGY IMAGES** TECH: Python(ML), Keras, TensorFlow, Numpy

- Developed a cutting-edge web application using Flask to enable clinicians to **predict numbers through hand gestures for intuitive image browsing**.
- Enforced **machine learning algorithms in Python**, leveraging libraries like TensorFlow, to **dynamically display radiology images based on predicted numbers** and Achieving an accuracy of **86%** while Testing.
- Revolutionized the **clinician experience** by offering a **touchless interface**, **minimizing physical contact**, and significantly enhancing efficiency and accuracy in radiology image analysis.

**BUS RESERVATION AND MANAGEMENT SYSTEM**

TECH: Html, CSS, Javascript, PHP, Mysql

- Streamlined **administrative tasks** with features such as **user management**, enabling the addition of system users for **efficient system handling**.
- Facilitated **revenue tracking for administrators**, offering insights into total earnings and allowing for better financial management of the bus service.
- Implemented a comprehensive Bus Ticket Booking System in PHP and Mysql, enhancing the efficiency of bus operations.

## PUBLICATIONS

[1] Real time drowsiness identification based on eye state analysis. *International Journal of Innovative Research in Computer and Communication Engineering*, 2023.