

# 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 SCHOOL**  
Grade 10 in Science  
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

- Teamwork • Analytics

## EXPERIENCE

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

- Designed and Executed **custom solutions using Apex, Visualforce, and Lightning Components**, resulting in a **20% improvement in overall system efficiency**.
- Collaborated on **seamless integration of Salesforce** with other systems, ensuring a cohesive workflow and enhancing system interoperability. This contributed to a **15% increase in data accuracy** and streamlined processes.
- Created and optimized **workflows, triggers, and validation rules** contributing to the development and maintenance of efficient Salesforce applications. **Attained a 25% reduction in processing time**.

## PROJECTS

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

- Curated a diverse driver's eye image dataset and employed **OpenCV for feature extraction, including blink rate and eye closure duration**. Achieved an **89% accuracy rate**, improving driver monitoring technology.
- Implemented TensorFlow-based algorithms for real-time classification of eye states, resulting in a substantial **20% reduction** in response time. **Seamlessly integrated the system**, 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, enabling clinicians to predict numbers through **hand gestures for intuitive image browsing**. Accomplished an **86% accuracy rate during testing**.
- Enforced machine learning algorithms in Python, leveraging libraries like TensorFlow, to **dynamically display radiology images based on predicted numbers**. This innovation revolutionized the clinician experience with a **30% increase in efficiency**.

**BUS RESERVATION AND MANAGEMENT SYSTEM**

TECH: Html, CSS, Javascript, PHP, Mysql

- Streamlined administrative tasks with user management features, facilitating the addition of system users for efficient system handling. This resulted in a **25% improvement in administrative efficiency**.
- Implemented a comprehensive Bus Ticket Booking System in PHP and MySQL, **enhancing the efficiency of bus operations**. This led to a **20% increase in online bookings and revenue**.

## PUBLICATIONS

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