

# ARAVIND ASHOK KUMAR

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## EDUCATION

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### THE UNIVERSITY OF TEXAS AT ARLINGTON

Aug 2021 – May 2023

- Master of Science: **Computer Science**
- Design & Analysis of Algorithms, Database Systems, SE Management, Computer Networks.
- Treasurer of Association of Information Technology Professionals
- Received "Silver Star Scholarship".

Current GPA - **3.67**

### AMRITA VISHWA VIDYAPEETHAM Coimbatore, India

June 2016 – Aug 2020

#### Bachelor of Technology: **Computer Science and Engineering**

- Data Structures & Algorithms, Object-oriented Design, Operating Systems, Software Engineering.

## WORK EXPERIENCE

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### Machine Learning Intern at Dasee.AI, Chennai - India

April 2019 – June 2019

- Worked on Solar Farm EPC Projects. Handled the entire data preprocessing pipeline. This would contain 500 GB of data on an average for each delivery.
- Created a script that automatically creates annotations in PascalVOC format by scrapping the information from .kml files. This reduced the turnaround time from 1 week to couple of hours.
- Built, trained and deployed DL models to efficiently detect and identify different types of defects in solar panel such as panel failure, diode failure, and hotspot using the thermal images. Achieved a multi class classification accuracy of 98% and F1 score 0.96.
- Used technologies and frameworks like Keras, Tensorflow, Airlflow, OpenCV, QGIS and Docker.

## PROJECTS

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### 1) Finding Optimal Post Time to Get Maximum Reach on Twitter

Collected datasets for data processing and conducted research based on Time Series and Text based analysis, analyzed the trend and seasonality of the time series model and implemented different testing methods for stationarity in the collected dataset- Python

### 2) Brewmify Coffee Management System

Developed a coffee management system that manages vending machine orders and services of premix products- Java, XML, Firebase

### 3) Sign Language Recognition using Hand Gesture Recognition Techniques-

Built an American Sign Language converter using Convolutional Neural network combined with LSTM network- Python, Android OS

## SKILLS

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**Programming Languages:** C, C++, Python, Java

**Databases:** SQL Server, My SQL, Mongo DB, Omega DB

**Web:** HTML5, CSS, JavaScript, Bootstrap, Node JS

**Workflow:** Agile, Git, Jira, Docker

**Operating System:** Windows 10/11, Linux