

# AISHWARYA RAJASEKARAN

+91-8105657486 • [ar.aishwaryaraj@gmail.com](mailto:ar.aishwaryaraj@gmail.com)  
[aishwarya-rajasekaran.github.io](https://aishwarya-rajasekaran.github.io)

## AREA OF INTEREST

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Artificial Intelligence, Digital Image Processing

## EDUCATION

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Indian Institute of Information Technology, Design and Manufacturing -Kancheepuram, Chennai  
*Bachelor of Technology: Computer Engineering* Expected - June 2019  
CGPA – 9.05/10 (at the end of 6th semester)

## PROFESSIONAL EXPERIENCE

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**Research Intern** May 2018 to Present  
[RBCDSAI Lab](#), IIT Madras

**Project** Development of a Deep Learning Algorithm for Detection of Retinopathy in Retinal Fundus Photographs"  
**Guide** Dr Balaraman Ravindran  
**Role** Trained a CNN model using 600 fundus images to obtain an accuracy of 82%.

**Developer Intern** May 2017 to July 2017  
"IdeaS Lab, Centre for Product Design and Manufacturing, IISC Bangalore "

**Project** InDeaTe (Innovation Design and Database Template)  
**Guide** Dr Amaresh Chakrabarti  
**Role** Worked as a Full Stack Web Developer and Designed the Database for InDeaTe ,a Computer-Based Platform with a Systematic Design Template and a Database of Methods and Tools which aims at improving sustainability considerations in design.

**Summer Intern** May 2015 to June 2015  
"Gas Turbine Research and Establishment, DRDO"

**Project** Encryption and Decryption of Text Files  
**Role** Implemented encryption and decryption of text files using DES algorithm in Java

## PROJECTS

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**FRS Based Portable Attendance System** January 2018 to March 2018  
Funded by Design Innovation Center, IIITDM Kancheepuram

- The project is aimed at designing FRS(Fingerprint Recognition System) based portable attendance system which will manage the student attendance at IIITDM, Kancheepuram.

**Heart Risk Prediction Based on Data Mining Techniques** January 2018 to March 2018  
This project aids the physicians in predicting the medical condition that the patient is suffering from various cardiac parameters and the corresponding medical conditions associated with them

**Designing an Efficient Air Filtration System for Indian Industries** June 2015 to May 2017  
Course work project - "Design was selected as one of the best three projects"

- Employed the principles of system thinking to come up with the problem statement.
- Applied the concepts of artificial intelligence to improve the product.
- Ethnography studies to understand the social context of user and customer.

**Placement website of IIITDM Kancheepuram** July 2015 to December 2015  
Placement Volunteer – "Placement cell, IIITDM Kancheepuram"

- Worked with placement developer team to build the institute placement website.

## SKILLS

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

**CAD Tools:** AutoCAD, Cadence

**Other Skills:**

- Exhibit Leadership skills (Lead role in the Mentor Mentee program )
- Able to take on responsibility and work efficiently in a team
- Good logical and reasoning ability
- Quick learner, keen to learn and improve skills.

## POSITION OF RESPONSIBILITIES

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**Vidhai**

*Present*

*Head - "Non-Profit Organization"*

- Conducted interactive sessions, Science fair for government school students of grade 6-10.

**Joint Academic Affairs Secretary**

*July 2017 to March 2018*

*"Academic Affairs Portfolio, IIITDM Kancheepuram"*

- Represented issues pertaining to academics, project and bridged the gap between the faculty and students.

**Mentor Mentee Program**

*July 2017 to March 2018*

*Chair – "Mentor Mentee Program"*

- The program was initiated under the Student Affairs Portfolio to guide the students in various aspects
- Played a significant role in the conceptualization and realization of the program.

**Zerone Club**

*August 2016 – May 2017*

*Coordinator - "Programming Club, IIITDM Kancheepuram"*

- Conducted sessions, competition and programming contests.

**Publicity Team**

*September 2015 – February 2016*

*Volunteer - "Samgatha, National Tech Fest"*

- Publicized Techno-Cultural Fest, Samgatha in various colleges in and around Chennai.

## ACHIEVEMENTS

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- Selected as one of **Top 15** teams of Canada India Acceleration Program 2018.
- Preincubated at Healthcare Technology Innovation Center, after winning the HTIC Hackathon 2018.
- In the **Top 2%** of Computer Science Batch 2015.
- Runners up - Astyanx, (Robotics Competition), National Tech Fest, IIITDM Kancheepuram
- Secured the NTSE State Level Scholarship twice with state rank of 15 and 27.
- Participated and won many Sports competitions (Basketball, Throwball, Athletics)