

# AISHWARYA RAJASEKARAN

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[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*

- 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*  
*Course work project – Data Mining*

- Aids physicians in predicting the medical condition of the patients using various cardiac parameters.

**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)