

# AISHWARYA RAJASEKARAN

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## EDUCATION

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Indian Institute of Information Technology, Design and Manufacturing - Kancheepuram

*Bachelor of Technology: Computer Science Engineering*

*Expected - June 2019*

GPA – **9.15/10** (at the end of 7th semester)

## PROFESSIONAL EXPERIENCE

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### Research Intern

*May 2018 to October 2018*

[Robert Bosch Centre for Data Science and Artificial Intelligence Lab](#), IIT Madras

- Worked under Prof Balaraman Ravindran on classification of retinopathy
- Developed a CNN model (Pytorch) with an accuracy of 79.2% trained on 700 images
- Validated the model by applying visualization techniques (Occlusion, Activation maps)

### Full Stack Web Developer Intern

*May 2017 to July 2017*

["DeaS Lab"](#), Centre for Product Design and Manufacturing, IISc Bangalore "

- Worked under Prof Amaresh Chakrabarti on software enhancement of [InDeaTe Tool](#)
- Resolved software (Django framework) issues and optimized the database
- Prepared a documentation for all the modules of the software

### Summer Intern

*May 2015 to June 2015*

*"Gas Turbine Research and Establishment, DRDO"*

- Implemented encryption and decryption of text files using DES algorithm in Java

## PROJECTS

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### Fingerprint Recognition Based Portable Attendance System

*January 2018 to March 2018*

*Funded by Design Innovation Center, IIITDM Kancheepuram*

- Designed and developed a web system that can be accessed by faculties track attendance
- The data collected from the fingerprint sensor is stored and processed in the raspberry pi

### Heart Risk Prediction Based on Data Mining Techniques

*January 2018 to March 2018*

*Course work project – Data Mining*

- Collaborated with Cardiologist and implemented a logistic regression model to predict heart failures in post-transplant patients with an accuracy of 92% trained on dataset of size 300

### 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
- Ethnography studies to understand the social context of user and customer
- Applied the concepts of artificial intelligence to enhance the product

### Designed a 32-Bit Pipelined processor

*February 2017 to May 2017*

*Course work project – Computer Organization*

- Implemented pipelined prefix adder, Wallace tree multiplier, barrel shift rotator in Verilog

## SKILLS

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**Programming / Scripting Languages:** C, C++, Python, Java, MATLAB, Verilog, Javascript, SQL

**Frameworks and Tools:** Pytorch, Django, Hadoop, Git

## POSITION OF RESPONSIBILITIES

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### Institute Innovation Council

Present

#### Student Representative

- Guided 30 teams working on Health care products and connected them with industries
- Startup Sandbox Accelerator Program, [MaDeIT](#) - Mentored 30 students with their product development( Ideation to Commercialization)

### Vidhai

Present

#### Council Member - "Non-Profit Organization"

- Taught nearly 250 underprivileged students from nearby schools during evening hours
- Organized Medical camp in 2 government schools
- Distributed relief materials to people during the cyclone

### Joint Academic Affairs Secretary

July 2017 to March 2018

#### "Students Affair Council, IIITDM Kancheepuram"

- Represented issues pertaining to academics, project and bridged the gap between the faculty and students
- Conceptualized and started the program the program to help the juniors with academic and social life
- Successfully led a team of 30 Mentors and 250 Mentee

### Zerone Club

August 2016 – May 2017

#### Coordinator - "Programming Club, IIITDM Kancheepuram"

- Conducted interactive sessions and competitive programming contests

### Public Relation Team

September 2015 – February 2016

#### Volunteer - "Samgatha, National Tech Fest "

- Interacted with students from 8 colleges in Chennai and ensured their participation in our fest

## ACHIEVEMENTS

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- Selected as on of **Top 15** teams of Canada India Acceleration Program for Women Entrepreneurs '18
  - Hosted jointly by All India Council for Technical Education and Carleton University
- Preincubated at [Healthcare Technology Innovation Centre](#) for our product [NicoStop](#)
- Awarded Excellence in Design,Innovation and Manufacturing from the Director,IIITDM Kancheepuram
- In the **Top 1%** of Computer Science Batch 2015
- Runners up - Astyanx ( Robotics Competition ) , National Tech Fest of IIITDM Kancheepuram
- Being a part of the Institute Basketball Team, participated and won in sports events