

## Education

- 2016–2020 **Indian Institute of Information Technology, Design & Manufacturing, Kancheepuram,**  
*Electronics & Communication Engineering*, Bachelors of Technology.  
CGPA – 8.92; Major GPA: 9.83
- 2014–2016 **Maharishi Vidya Mandir,**  
*Grade XII (CBSE)*, Aggregate – 96.4 %.
- 2013–2014 **SBOA School & Junior College,**  
*Grade X (CBSE)*, Aggregate – 98 %.

## Research & Industry Experience

- May'19- **Research Intern, CPDM, Indian Institute of Science, Bangalore.**  
Oct'19
  - Developed an open domain question-answering system for a Virtual Reality game using Natural Language Processing & Neural Networks.
  - Product form design model using Genetic Algorithms (\*upcoming research paper).
- May'18- **Data Analyst Intern, RISE Labs, Dept. of Computer Science, IIT-Madras.**  
July'18
  - Experimenting various Machine Learning models on Big Data using FinLibre Stack.
  - Predicting the demand and supplies of perishable goods using Time Forecasting models.
- Aug'18- **Data Analyst Intern, SIDDHI Agro Food Industry, Mumbai.**  
Sep'18
  - Performed Data Analysis on the global export market of Rose products.
  - Employed Time Series forecasting models for analysis and prediction.
- Nov'17- **Project Intern, KNILA Solutions, Coimbatore.**  
Dec'17
  - Home Automation Project using IOT.
  - Worked in the R&D team and designed miniature working models as a part of architecture validation.
- Oct'19- **Teaching Assistant, Pattern Recognition course, IIITD&M Kancheepuram.**  
Present

## Projects

- Jan'19- **Retail Autonomous Bot, IIITD&M, Kancheepuram.**  
Apr'19
  - A MVP to enhance customer shopping experience at huge retail stores.
  - Based on the requirements of the customer, the bot dynamically calculates the shortest path and maneuvers accordingly.
  - Heroku servers which communicates with the bot were set up. PID controllers, IR and ultrasonic sensors were used for bot movements.
  - A mobile application for customers was designed via which the users can input their product requirements.
  - A shop floor was constructed during testing to emulate the real-time shopping dynamics.
- Jan'19- **Gesture Controlled Bot, IIITD&M, Kancheepuram.**  
Mar'19
  - Project is based on wireless communication where the data from hand gestures is transmitted to the robot over RF link.
  - Accelerometer sensor based gesture controlled bot.
  - Arduino Nano micro-controller was used.
- Sep'18- **Self Driving Vehicle, IIITD&M, Kancheepuram.**  
Nov'18
  - Using web camera along with OpenCV to recognize traffic lights signal.
  - Using a GPIO to control brightness of traffic lights.
  - Using socket to connect server to calculate and return commands to Raspberry Pi car.
- Jan'18- **Library Management System, IIITD&M, Kancheepuram.**  
Apr'18
  - A complete RFID based library management system in which every book is installed with a RF receiver which scans automatically when the user checks out with a book.
  - Linked with the server which updates the availability of the books.
  - An application was designed for an interactive interface.

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## Skills

**Programming** Python, C/C++, C#, MATLAB, R, Embedded C

**ML/DL** Keras, Tensorflow, Pytorch, Scikit-learn

**Image processing** OpenCV, Scikit-Image, Scikit-Video

**Database** MYSQL, SQL Server, Hadoop

**Visualization** Tableau, Metabase

**Software** Arduino IDE, Raspberry Pi

**Tools**

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## Achievements

Academic

1. Department topper for the semesters 5 & 6.
2. Innovative product idea award for the Retail Autonomous Bot product at the EHIPASSIKO hackathon.
3. Academic Proficiency Award for securing more than 95% in grade XII examination conducted by the Central Board of Secondary Education.
4. School topper in English in grade XII examination conducted by the Central Board of Secondary Education.

Other

1. Winner of the Math Quiz (2017), winner of the Cryptomaniac event (2016) at Invente Tech Fest - a national level technical fest organized by SSN College of Engineering.
2. Winner at Pitch Please, Electrohunt events at the Vashisht Technical Fest conducted by IIITD&M Kancheepuram.
3. Runner up in the music event at the intra college fest.

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## Position of Responsibility

1. An active member of Vidhai, a non-profit initiative catering to the educational and infrastructural needs of underprivileged students.
2. Played an organizational role in a Health Relief Camp set up for victims in the flood-affected areas of Tamil Nadu during the 2015 Floods.
3. Member of the institute Mentor Mentee committee.
4. Coordinator of the institute Placement Cell.
5. Department representative for the years 2018 & 2019.
6. Co-curricular current affairs coordinator.