

# Dinesh Kumar Baalajee Jothi

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## EDUCATION

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**Dalhousie University**, Halifax, Nova Scotia

Graduating May 2022

Master of Applied Computer Science

**Relevant Coursework:** Communicating Computer Science Ideas

**Anna University**, Chennai, India

September 2020

Bachelor of Technology in Information Technology

**Relevant Coursework:** Artificial Intelligence, Computer Programming, Database Management Systems, Data Analytics, Machine Learning, Software Engineering

## PROFESSIONAL EXPERIENCE

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**BYJU'S pvt ltd.**, Work from home

November 2020 - January 2021

*Business Development Trainee*

- Connecting with parents with high intent over phone calls.
- Host Zoom meetings with the parents & students to help them understand the learning requirement of the student.
- Suggest personalized learning solutions suited to their requirements.

## ACADEMIC PROJECTS

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**HCI Based Input Device for Differently Abled**

December 2020 - April 2020

- Developed eye tracking keyboard and mouse cursor controller as an alternative input device for differently abled people to use the computer using OpenCV library in Python which functions efficiently under sub optimal lighting conditions
- Added a functionality to provide visual feedback regarding the position of the mouse cursor and keys entered in real time
- Introduced a three-level tree selection method for the selection of keys in the virtual keyboard

**Real Time Face Recognition**

June 2019 - July 2019

- Developed a face recognition system and deployed it on Android using Tensor-flow Light to provide an accuracy of 91.60%
- Collected set of images and labeled them for training and testing of the model; uploaded the data set to Google Drive and trained the model on Google Colab.
- Exported the trained inference graph and ran interface tests; transferred frozen graph and converted it to tflite format.
- Developed an android app using the tflite file and generated APK using Android Studio.

**Smart Temperature Monitoring System**

February 2019 - March 2019

- Developed an industrial system to constantly monitor temperature in an industrial freezer and detect anomalies in temperature of the storage facility
- Enabled the system to detect opening and closing of the storage door using Machine Learning Z-score algorithm
- Alerted user through an alarm (SMS/email) if temperature falls below or rises above the threshold point
- Detected anomalies and monitored temperature with an accuracy of 95.50%

## HONORS / AWARDS

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- Won 2nd place among 80 participants in a student project competition conducted by Computer Society of India (CSI), Mar 2019
- Won 1st prize among 50 in Inquisitive technical quiz at Interrupt 2k18 (national level tech symposium) organized by Sri Venkateswara College of Engineering, Sep 2018
- World record holder in World's Biggest International Hands-On Security Forensics Workshop organized by Wikitechy and Microsoft community group, Aug 2017

## TECHNICAL SKILLS

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**Programming Languages:** Java, SQL, C, C++, HTML, CSS

**Tools:** Excel, Word, Google Colab, Jupyter Notebook

**Libraries:** Pandas, Numpy, Scikit-Learn, Scipy, Keras, Tensorflow, OpenCV