

# Eashan Kaushik

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## 🎓 education

**Vellore Institute of Technology, Vellore**  
B. Tech., Computer Science and Engineering;  
9.05 GPA (till 6th semester); Achieved Gold Medal  
for proficiency in English

## ☰ skills

**Languages:** Java, Python, C, CPP, JavaScript,  
HTML5, CSS3, MySQL, jQuery, Node.js

**Technologies:** PyTorch, OpenCV, JAX - RS,  
JSO, Apache Maven, iText, Kafka, RESTful API,  
MongoDB

**OS:** Ubuntu, Windows, macOS

## 🔧 projects

### Typing Assistant August 2020

- Used Brown Corpus of Standard American English database for prediction and completion of 1.15M words
- Used Bigram and Minimum Edit Distance Model for word prediction and completion

### Automated Image Captioning April 2020

- Developed a system that produces a series of texts that best describe an image
- Implemented this system using Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN)
- Trained the model on Flickr 8k dataset consisting of 6000 training images, 1000 validation images and 1000 testing images
- Performed Feature Extraction using Inception-v3 model

### Hand Gesture Recognition November 2018

- Built a cost-effective hand gesture recognizer
- Avoided the traditionally used Data Gloves and Color Pins since using them is not feasible for the masses
- Used a webcam because it is an easily available device
- Used Python & OpenCV to detect hand gestures through a webcam
- It can identify gestures such as thumbs up, okay, and finger counting (1-5)

## 💼 work

### Minda iConnect May 2019 - June 2019

Software Development Intern

*Deploying and understanding the use of Kafka in Carot Fleet Tracking system*

- Worked on a GPS based web-based application - Carot Fleet
- The software's focus is in providing useful functionality on owner's smartphone to make car ownership more enjoyable, safe, and convenient

*Developing a local messenger using RESTful API, JAX-RS and JSO*

- Worked on a messenger application for Minda iConnect to facilitate exchange of confidential information between different teams

*Developing a Salary Management Software using Maven Project layout and iText*

- Developed a user-friendly, flexible, and highly secure salary Management System
- Automated calculations such as employee salary, employee tax, to create bank files, and organization tax calculations, among others

## 💻 research

### Facial Feature Extraction and Emotional Analysis using Classifier Fusion (Fisher Face + HOG) October 2020

### Analysis of Supervised Learning Models using scikit-learn July 2020

### Asynchronous Advantage Actor Critic with Random Exploration Exploitation (A3C-REE) March 2020

*Published in International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Volume: 07 Issue: 04, Apr 2020 pp: (4029-4036)*

### Handwriting Analysis for Personality Trait Detection using Neural Networks January 2020

### PerfTrace: Performance Anomaly Fault Localization & Performance Bug Diagnosis for Infrastructure-as-a-Service Clouds(IaaS) September 2019

*Published in the International Journal of Computer Science and Information Technology Research ISSN 2348-120X (online) Vol. 7, Issue 3, pp: (164-173), Month: July - September 2019; available at: [www.researchpublish.com](http://www.researchpublish.com)*

## 🤝 social activities

- Volunteer at Mahavir International NGO, Gurgaon
- Volunteer at Youth Red Cross Society in Vellore Institute of Technology, Vellore