

Keshav Moorthy

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# Summary

# A highly enthusiastic and budding developer interested in Deep Learning, Neural Networks and Natural Language Processing

# Currently working on a project that predicts and completes sentences in damaged OCR handwritten documents where sentences are partially and inaccurately predicted using word substitution algorithms.

* Have previously worked on computer vision including face and object recognition technologies in Tensorflow and OpenCV.
* Have demonstrated skills in programming with Python, Java and C++ extensively. Have also worked with cloud technologies including GCP and AWS.
* Have actively taken part in hackathons and pursued online courses for improving my programming skills and gaining exposure

# Experience

## INTERN | INVENTO ROBOTICS | MAY ’18 – JULY ‘18

· Developed the facial recognition system of the “Mitra” robot using OpenCV

· Deployed a Flask API for using the system from an AWS cloud server

· Demonstrated skills in computer vision using Tensorflow and OpenCV

## SOFTWARE DEVELOPER INTERN | VICARA TECH | JUN ’17 – SEP ‘17

· Developed the complete Front-End of a Desktop Application which was an interfacing application of a proprietary BLE Gesture Recognition Device.

· Developed professional experience in Javascript, Node JS, JQuery, and ElectronJS from the three-month internship.

## CORE COMMITTEE MEMBER | COMPUTER SOCIETY OF INDIA | JAN ’17 – FEB ‘18

· Recruited as a web developer and a proficient technical member at a national level chapter · Helped develop front end of a 3-day web-based gaming event, Riddler 2017.

· Developed team work and relationship-management skills from the experience.

## EVENT VOLUNTEER | HELPHEN INDIA NGO | FEB ’18

· Volunteered for a non-profitable Open-to-All Marathon conducted by Helphen India

· Worked directly with event coordinators and the management department

## EVENT VOLUNTEER | HELPHEN INDIA NGO | OCT ‘18

· Volunteered for a Cyclothon awareness event conducted by an Helphen India

## VOLUNTEER FOR PROJECT KINDER| HELPHEN INDIA NGO | DEC ’18 – PRESENT

· Project Kinder is a project initiated by Helphen India, Vellore with the objective to teach English to the government school children

· Helped teach English for students of 3rd and 5th grade

# Certificates

## NEURAL NETWORKS AND DEEP LEARNING | deeplearning.ai

This course involves

- Understanding the major technology trends driving Deep Learning

- Being able to build, train and apply fully connected deep neural networks

- Knowing how to implement efficient (vectorized) neural networks

- Understanding the key parameters in a neural network's architecture

[Link to certificate](https://www.coursera.org/account/accomplishments/verify/QS95Z7XU6CP3?utm_medium=certificate&utm_source=link&utm_campaign=copybutton_certificate)

## PARALLEL PROGRAMMING IN JAVA | Rice University

The modules in this course include

- Theory of parallelism: computation graphs, work, span, ideal parallelism, parallel speedup, Amdahl's Law, data races, and determinism

-Task parallelism using Java’s ForkJoin framework and dataflow parallelism using the Phaser framework and data-driven tasks

-Functional parallelism using Java’s Future and Stream frameworks and loop-level parallelism with extensions for barriers and iteration grouping (chunking)

[Link to certificate](https://www.coursera.org/account/accomplishments/verify/QS95Z7XU6CP3?utm_medium=certificate&utm_source=link&utm_campaign=copybutton_certificate)

# Publications

## ENHANCING PREDICTABILITY OF HANDWRITTEN DOCUMENT CONTENT USING HTR AND WORD SUBSTITUTION | MAY 15 ‘20

*International Journal of Innovative Science and Modern Engineering*

* Handwritten documents are prone to damages and blemishes that can result in incomprehensible textual content.
* This paper focusses on techniques that include blur detection and word substitution after processing OCR in such areas for being able to closely predict the words in such areas

# Education

**BTECH | 4RD YEAR | VIT UNIVERSITY, VELLORE**

## SRI SANKARA SENIOR SECONDARY SCHOOL, ADYAR, CHENNAI | MAY 2016