

# RAGHUL ASOKAN

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## EDUCATION

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### Anna University(SSNCE)

Bachelor's in Computer Science *GPA: 8.6*

Chennai, India  
Aug 2012 - May 2016

### Marian Mat. Hr. Sec. School

Class XII State Board, 97%

Chennai, India  
June 2011 - April 2012

## WORK EXPERIENCE

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### Infilect

*Deep Learning Engineer*

Bengaluru, India  
December 2018 | Present

- Training and deployment of object detection models for Retail shelf image parsing. Architectures: SSD, RetinaNet.
- Developed text detection models(arabic and japanese) for Analysis of retail point-of-sale materials. Architecture: Densebox(EAST).

### Zoho Corporation

*Deep Learning Engineer at ZLabs*

Chennai, India  
June 2016 | November 2018

- Developed end-to-end Optical Character Recognition(OCR) Pipeline for Zoho Expense - an online Expense Report Software.
- Training and productionization of deep learning models for Text recognition. Architectures: CNN + BLSTM + CTC, CNN + CTC(Rosetta), SWA: 0.85
- Synthetic data generation.
- Built data annotation tool for Text recognition.

## PROJECTS([https://github.com/mailcorahul/deep\\_learning](https://github.com/mailcorahul/deep_learning))

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### Neural Style Transfer

PyTorch implementation of the paper "A Neural Algorithm of Artistic Style by Gatys et. al".

### Image Super-Resolution Using Deep Convolutional Networks

- PyTorch implementation of the paper for enhancing the quality of word images used for OCR Word Recognition.
- Dataset used: Synthetically generated receipt word images.
- Accuracy - Average PSNR: 19.92 dB

### Other Computer Vision Projects([https://github.com/mailcorahul/computer\\_vision](https://github.com/mailcorahul/computer_vision))

- e-Commerce Product Duplicate Detection using Siamese Neural Networks(One shot learning).
- Text Detection using Maximally Stable Extremal Regions with increased recall and performance.
- Boundary Detection in Receipts using Structured Forests and Hough Line Transform.

## SKILLS

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Programming Languages:	Python, C, C++, Java
Deep Learning:	Numpy, OpenCV, PyTorch, Keras
Web:	HTML, CSS, Javascript, jQuery, Apache Tomcat, CherryPy
Platforms:	Linux, Windows

## OTHER ACTIVITIES

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- Blogger on Medium - Towards Data Science.
- Speaker at AI and Data Science Day 2019 - Bangalore, presented a session on "A deep evolution of text detection & text recognition on natural scenes".
- Secured third place in Zia Hackathon 2018 - A Machine Learning Hackathon held at Zoho Corporation.