



# Infant Raja

## Machine Learning Engineer

I am an Highly passionate Machine learning engineer with holistic knowledge of Deep learning, NLP, Computer vision and with the ability to apply ML techniques and algorithm development to solve real world industry problems.

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## WORK EXPERIENCE

### Deep Learning Engineer Hertz AI

08/2019 - Present

Chennai

An artificial intelligence company focused on providing AI based education system and other cutting edge technologies based product for business.

#### Achievements/Tasks

- Responsible for Designing and developing a augmented personalized chatbot for teaching, revising and assessing students. Key feature are dynamic content creation from the corpse of data.
- Developed a OCR/ANPR pipeline, which is capable of delivering high efficient and robust results.
- Crawled & Created a custom & synthetic dataset for training models in OCR pipeline. More than 5 Lakh sites are crawled. Automatic crawling effectively reduced the cost of acquiring data's for training.
- Updated & optimized 15+ pre-trained model and fine-tuned with custom datasets

### System Administrator SW Engineering Private Limited

09/2017 - 04/2019

Chennai

#### Achievements/Tasks

- Creating and Maintaining the data for whole organization
- Collaborated with others to achieve goals
- Worked in networking and system support

## EDUCATION

### Bachelor of Engineering JNN Institute of Engineering

04/2012 - 04/2016

#### Courses

- Electrical & Electronics Engineering

### Higher Secondary St. Antony's Matric Higher Secondary School

2012

Chennai

## SKILLS

Machine learning

Deep Learning

Python

Statistics & Probability

Docker

MYSQL

Flask

JavaScript

Mathematics - DL/ML

MongoDB

FastAPI

TensorFlow

PyTorch

Machine Learning Algorithms

Predictive Modeling

Data structures & Algorithms

NLP

Computer vision

TTS

Explanatory Analysis

## PROJECTS

### Hevolve.AI (03/2020 - Present)

- Desc : A A.I substitute to teacher.
- It's a augmented chatbot capable of teaching, revising and assessing from any topic the user gives. the content used are dynamically generated for each session.
- The key features are Dynamic question asking ability from corpse of data, and evaluating the answer.
- It is designed to handle smooth user interaction and it can properly handle the edge cases as well.

### OCR & Number Plate detection (11/2019 - 02/2020)

- It is a Multi-staged text detection & extraction pipeline which is robust to any type of image/video.
- OCR - Pipeline : Document Classification -> Layout Detection -> Text Detection -> Text Extraction.
- Number Plate detection - Pipeline : Car/Object Detection -> Text Detection -> Alignment Model -> Text Extraction.

## LANGUAGES

English

Full Professional Proficiency

Tamil

Full Professional Proficiency

## SOFT SKILLS

Problem Solving

Creative

Organizational skills

Critical thinking

Smart working