

```
import Recruiter
import Kaushal
```

# Kaushal Sharma

```
if Recruiter.jobVacancy == 1:
    set Kaushal.interviewStatus = 1
else:
    set Kaushal.keepLearning = 1
```



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Constantly working on  
personal projects!

Join my Network!

More than 2.5 years of experience with projects built for domains across Agri, Strategy, Internet of Things, and International Operations. Fluent in Python and knowledgeable in Computer Vision along with experience in designing and implementing Restful APIs

## Skills

**Languages:** Python, Javascript, HTML5, SASS/CSS3

**Version Control:** Git

**Domains:** Computer Vision, Natural Language Processing

**OS:** Windows, Linux

**Frameworks:** Django, Flask, Dash/Plotly

**Databases:** SQL, PostgreSQL

**Cloud:** Azure

## Work Experience

Associate Analyst  
Mahindra & Mahindra Ltd

*October 2018 - Present*

### Image Recognition - Agri

**Business Problem:** To provide crop care solutions without the need of an expert with the help of Artificial Intelligence by diagnosing images of the crops the farmer clicks

**Solution:** Developed CNN(Convolutional Neural Network) models using transfer learning to increase farm productivity by providing real-time expert crop care solutions to farmers right on their smartphones via android application

**Tech stack:** Python, CNN, Django, REST APIs, Keras

#### Approach & Responsibilities

- Built an Object Filtering model using inception\_resnetv2 to filter out non-crop images
- Built CNN models for 21+ crops and 300+ categories using transfer learning and deployed them to android applications through Django's REST APIs secured with JWT
- Designed and Implemented backend to deploy these models on an android application using APIs

### AINAC - Automated Agri Image & Analytics Console - Agri

**Business Problem:** Delay in adding new categories(diseases or pests or disorder or deficiency) to the Image Recognition algorithm as long as 30-40 days

**Solution:** Built an inhouse Image Tagging Tool(Web App) bringing about 6x reduction in operating cost of about 65L and 11x improvement in efficiency for tagging new images taking about 7 days

**Tech stack:** Python, Flask, SQL, HTML, CSS

#### Approach & Responsibilities

- Automated transfer of images from Cloud to On-premise server to t-1 days and set-up an FTP for ease of access and real-time tagging of images
- Built an Image Tagging Tool(Web App) using Python framework Flask and SQL for real-time tagging of images with features like Login, Concurrency, Undo, Admin view, etc

## Competitive Intelligence - Strategy

**Business Problem:** To pick up on early trend signals and start devising solutions before the signals become mainstream

**Tech stack:** Python, Selenium, Flask

### Approach & Responsibilities

- Developed a scrape to scrape news/article from various news and social media sources, processed the scraped news/articles using NLP and scored them into pre-defined buckets based on keywords appearing in the news/article
- News/articles passing a certain score threshold were automatically sent to the business

**Solution:** Pick up articles from various News and Social Media sources apply NLP and score them into buckets

## Dealer Location - International Operations

**Business Problem:** Find appropriate locations in the USA for MAGNA (Mahindra Agriculture North America) to open Tractor dealerships to gain market share

**Tech stack:** Python, Folium, Selenium

### Approach & Responsibilities

- Studied the market share of tractors for all the states in the USA and along with locations of all the dealerships and drew out certain hypotheises for Mahindra's Leading/Lagging tractor sale in certain states

**Solution:** Scrutinize the market share and dealership locations of competitors

## Krish-E Smart Kit - IoT

**Business Problem:** Farmers who rent out their tractors face several problems like theft of diesel, the borrower doing additional work than agreed upon, etc

**Tech stack:** SQL, PostgreSQL

### Approach & Responsibilities

- Analysed the data and built several dashboards in context such as: Tractor usage, Revenue, Orders, Implement rental, Capex; highlighting KPIs to provide the stakeholders complete visibility of the business and help make further decisions

**Solution:** Attach an IOT device into the Tractors to transmit data back to our servers and update details on an android application on which the farmer can view his/her tractor status in real-time

## Achievements

Mahindra Rise Awards Level 1 Winner (2020)

Guest Lecturer at AFP Program for internal upskilling (2019)

Certificate of Appreciation (2019)

For the Image Tagging Tool

Lecture on CNN and its applications to leadership level audience

For excellent contribution on Image Recognition

## Education

Bachelor's in Engineering  
*Univesity of Mumbai*

2014 - 2018  
*CGPA: 7.76*

## Interests

Weighlifting   Stock Market   Music Production