

# Kushal Honnappa, Curriculum Vitae

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[Google Scholar](#) | [ResearchGate](#)

## Research Interests

**Mission:** My goal is to gain advanced knowledge in the field of Artificial intelligence and obtain experience in the domains like ML, Deep Learning, NLP, Computer vision, and reproduce a product that helps in the betterment of society.

**Interests:** Artificial Intelligence (AI); Machine Learning (ML); Deep Learning (DL); Natural Language Processing (NLP); Computer Vision; Django

## Education

### PhD., Computer Science

Old Dominion University

*2022-Present*

Virginia, USA

### B.Tech., Computer Science Engineering

PRESIDENCY UNIVERSITY

7.37/10 CGPA

*2017-2021*

Bengaluru, India

## Professional Experience

### Software Developer

Medilenz Innovations Private Limited

*September.2021 - August.2022*

Bangalore, India

Worked as a software developer over the technologies that include flask framework, Django framework, and NLP for text processing, summarizing the documents, NER operation to extract clinical and medical data. classifying the medical data using image processing techniques and histogram. Have built a web portal which have 150 users.

### NLP Research intern

Avkara Technologies Private Limited

*February.2020- July.2021*

Jaipur, India

Worked as a research intern where I have the responsibility to research to mask the received voice data to unrecognizable voice by hiding private information and implement it. I have explored techniques like Bert, LSTM till now, and now working on other techniques to get better accuracy. The main purpose of this masking is to maintain anonymity by the user in our application.

### Django Rest Frameworks Developer Intern

Avkara Technologies Private Limited

*September.2020-February.2021*

Jaipur, India

Worked as a Django Rest Frameworks developer intern. I had the responsibility to work on the backend part of the mobile application using DRF. This application is used for the mental health department where people can express their problems anonymously.

### Research Intern

Xcelerator.ninja

*June.2019-August.2019*

Bengaluru, India

Worked as a research intern, I have researched on emerging technologies. I explored the AI and its techniques. I worked on the database project.

## Projects

### AgriDoc

[Project link](#)

In this project, I have created a web application that predicts the occurrence of diseases in the plant and recommends suitable remedies to solve them. Here I have trained 5 different models and deployed them using the Django framework.

### Sentimental Analysis

[Project link](#)

I have done an end-to-end sentimental using NLP and CNN here I have trained for a 100k tweet dataset. I have used Django to deploy the project

### Mask Detection

[Project link](#)

I have done a project object detection project which detects using a live camera where the person is wearing a mask or not

## Shopping website

[Project link](#)

This is a project where I have developed a website using Django as a framework and developed a web application.

## Credit card reporting of fraud

[Project link](#)

In this project, I have trained data with different types of ML algorithms and selected the best algorithms, and deployed it in the Django framework to make predictions.

## Face detection

[Project link](#)

This is a project which identifies the face of a person and expresses the name. I have used transfer learning in it.

# Courses

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## Deep Learning Specialization

A Coursera specialization courses with 5 sub courses

[certificate link](#)

## DeepLearning.AI TensorFlow Developer Specialization

A Coursera specialization courses with 4 sub courses

[certificate link](#)

## AI Foundations for Everyone Specialization

A Coursera specialization courses with 3 sub courses

[certificate link](#)

## Natural Language Processing Specialization

A Coursera specialization courses with 4 sub courses

[certificate link](#)

## IBM Applied AI Specialization

A Coursera specialization courses with 6 sub courses

[certificate link](#)

## IBM Data Science Specialization

A Coursera specialization courses with 9 sub courses

[certificate link](#)

## Applied Data Science Specialization

A Coursera specialization courses with 4 sub courses

[certificate link](#)

## Key Technologies for Business Specialization

A Coursera specialization courses with 3 sub courses

[certificate link](#)

## Architecting with Google Compute Engine Specialization

A Coursera specialization courses with 5 sub courses

[certificate link](#)

## STATS FOR DATA SCIENCE

This is where I learned live "statistics requirement for data science"

[certificate link](#)

## Machine Learning A-Z™: Hands-On Python & R In Data Science

The Udemy course which thought on ML with hands-on experience

[certificate link](#)

## Deep Learning A-Z™: Hands-On Artificial Neural Networks

The Udemy course which thought on Deep Learning with hands-on experience

[certificate link](#)

## Modern Natural Language Processing in Python

This Udemy course which thought me about NLP with the hands-on projects

[certificate link](#)

# Research papers

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## AgriDoc: Classification and Prediction of plant leaf diseases

[Publication link](#)

This paper gives a brief explanation of the project which helps to detect and identify the diseases accordance in with the plants in the agriculture field. The paper is published in Turkish Journal of Computer and Mathematics Education (TURCOMAT).

## Smart Automation Attendance System using Neural Networks

[Publication link](#)

The paper describes how we can automate attendance in Universities or at the workplace just by clicking multiple pictures at the desired place. This research is inclined towards Neural network

## Masking Private User Information using Natural Language Processing

[Publication link](#)

In this paper, we have written about a mobile application that we have built and the integration it with NLP to provide complete anomaly by masking user's private data. This paper is published in the IJARIT journal.

## Reverse Recommendation: without user details

[Publication link](#)

This is the next version of Masking Private User Information using Natural Language Processing where a recommendation system is included. The users get recommended posts by analyzing their current posts.

## Crop Infection Detection using YOLO

[Publication link](#)

This paper gives a deep explanation for identifying the infected plant by its leaf using the YOLO object detection algorithm.

## **A Survey on Role of Emerging Technologies in implementing smart Agriculture** [Preprint link](#)

This is a survey paper that explains how advanced technologies help farmers to increase production and creates smart farming.

## **Extracurricular activities**

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### **Speaker for tech talk (AI)**

Was a speaker for the tech talk on "How AI and Machine Learning are helping to solve the World's most difficult problems" at KARPAGA VINAYAGA COLLEGE OF ENGINEERING & TECHNOLOGY, Chennai.

### **Research Project**

[certificate link](#)

Attended webinar on 'Funding opportunity for research projects' which by conducted by chief principal scientist, CSIR- National AeroSpace.

### **NLP workshop**

[certificate link](#)

Attended Natural language processing (NLP) workshop for 5 days organized by Reva University

### **Machine Learning & its Recent Trends**

[certificate link](#)

I attended machine learning and its trend webinar which was associated with IEEE and organized by Presidency University

### **Google 30 days**

Google 30 days challenge and won swags by google as an appreciation on completing it.

### **Paradigm (model)**

Participated in 'Paradigm (model)' competition (a computation where we have to show a real working project), where we built home automation system using Arduino board, which was on 15-02-2019 which was conducted on presidency.

### **Code Knack**

Participated in 'Code Knack' (a code debugging computation) competition on 15-02-2019 which was conducted by Presidency University.

## **Skills**

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- > Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision.
- > Django Web Framework, Django Rest Framework, Flask
- > TensorFlow (Framework)
- > PostgreSQL, SQLite, MySQL
- > Python, C, Java
- > Data Structures, Algorithm
- > Windows, Linux (Ubuntu) OS
- > Docker, Git

## **Personal Details**

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**Date of Birth:** 21/04/1999

**Sex:** Male

**Nationality:** Indian

## **Declarations**

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I hereby declare that the information furnished above is true to the best of my knowledge. I do hereby declare that the above particulars of information and facts stated are true, correct, and complete to the best of my knowledge and belief.

**Location:** VA, USA

**Kushal Honnappa**