

# Maheep

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## EDUCATION

### Bundelkhand Institute of Engineering and Technology, Jhansi, India

4443 out of 2 Lac ranked in AKTU

August 2018 - August 2022

## RESEARCH INTERESTS

- Machine Learning, Image Processing, Deep Learning

## TECHNICAL SKILLS

- **Programming/Scripting Languages:** Python, C, C++
- **Backend :** Django
- **Libraries/Packages:** Tensorflow, keras, OpenCV, Scikit-Learn, Numpy, Pandas, Matplotlib,
- **Hardware :** Raspberry Pi 3

## EXPERIENCE

### Recommender Cum Reminder System

IIT, Indore

Research Fellow

October 2019 to Present

- Currently working on an academic research project under the guidance of [Prof. Chandresh Kumar Maurya](#).
- Successfully Build and Trained an Image Classification model implementing [Stand alone Self Attention](#) research paper from scratch and implemented an Image Segmentation model using [U2net](#)
- Helped in Formulating a sophisticated pipeline for achieving the project objective.
- The research work is under review in [NAACL](#) Industry Track Conference

### Recommendation Engine for Research Papers

BIET, Jhansi

Research Fellow

September 2019 to June 2020

- Worked under the guidance of [Prof. Mrityunjay Singh](#) on proposing a search engine for researchers so that they can find relevant research papers to read (Funded by AICTE).
- Implemented a text embedding based sorting algorithm that is able to give recommendation to a user based on his/her expertise in the search domain.
- The research work is currently under review in [Information Sciences](#)

## ACHIEVEMENTS

- Grand Finalist of [ASEAN-India Hackathon](#), held between 11 countries. As *Team Leader*, focused on solving the problem of Marine Species Detection as under Blue Economy.
- Passed Electric Guitar Grade 2 by Rockschoool, London .
- Winner of Smart India Hackathon, worked on a BPRD problem statement related to Face Detection.

## PROJECTS

### Implemented Stand-Alone Self-Attention Research Paper in Tensorflow

November 2020 to December 2020

**Mentor:** Prof. Chandresh Kumar Maurya, IIT Indore

This project aimed to implement the [Stand-Alone Self-Attention](#) Research Paper from scratch in Tensorflow.

This is the [link](#) to the project.

**Tech Stack:** Python, Tensorflow, matplotlib

### Neural Style Transfer

March 2020 to April 2020

This project aimed to implement Neural Style Transfer by taking a style and a picture.

This is the [link](#) to the project.

**Tech Stack:** Python, Pytorch, Numpy

## GANs

Oct 2020 to Nov 2020

This project aimed to generate images of the numbers using the mnist dataset as training dataset for the network.

This is the [link](#) to the project.

**Tech Stack:** Python, Tensorflow, Numpy

## Automated Caption Generator

September 2020 - October 2020

This project aimed to extract the features of the image and therefore creating a label for an image.

This is the [link](#) to the project.

**Tech Stack:** Python, Tensorflow, Numpy

## Stock Predictor

October 2020

This project was developed using a web app to predict the stocks using Django.

This is the [link](#) to the project.

**Tech Stack:** Python, Tensorflow, Django

## Car using Raspberry-pi

October 2020

This project aimed to build a remote control car, hosting it on server using Django.

This is the [link](#) to the project.

**Tech Stack:** Python, Tensorflow, Django

## CERTIFICATES

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[Deep Learning Specialization](#)  
[Machine Learning](#)  
[Data Structures and Algorithms](#)  
[Entrepreneurship](#)

## REFERENCES

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### Dr. Chandresh Kumar Maurya

Assistant Professor, CSE, IIT Indore [\[Profile\]](#) [\[LinkedIn Profile\]](#)

**Research Interest:** Machine Learning, Deep Learning, Data Mining.

### Dr. Mrityunjay Singh

Assistant Professor, CSE, JUIT WAKNAGHAT [\[Profile\]](#)

**Research Interest:** Database Systems, Artificial Intelligence, Mobile Computing, Machine learning, Theory of Computation .

### Mr. Sushil Sharma

Senior, Advanced Analytics at ATT, USA [\[Linkedin Profile\]](#)

**Research Interest:** Database Systems, Artificial Intelligence, Mobile Computing, Machine learning, Theory of Computation .