

AMBIKESH KUMAR SINGH

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Experience / Internship

Indian Institute of Technology, Jodhpur

Sept 2020 – onwards

Teaching Assistant

Jodhpur, Rajasthan

- Teaching assistant of I. Introduction to Machine Learning, II. Introduction to Computer Science and III. Artificial Intelligence.
- Responsibilities are delivering some lectures, evaluation of assignment/projects and doubt resolution

Techtud-OpenSense Labs

June 2019 – Oct 2019

Technical Content Editor Intern

Saket, New Delhi

- Writing notes about core CSE subjects related to Gate exam
- Created quizzes and test series for Gate exam.
- Organized doubt resolution sessions.

Nasscom Foundation and Aricent

May 2017 – July 2017

Internship

Greater Noida, Uttar Pradesh

- Qualified Software Developer Assessment

Education

Indian Institute of Technology, Jodhpur

Expected 2022

Master of Technology in Artificial Intelligence

Jodhpur, Rajasthan

- CGPA : 6.06 so far

IEC College Of Engineering and Technology

July 2014 – June 2018

Bachelor of Technology in Computer Science and Engineering

Greater Noida, Uttar Pradesh

- Percentage : 72.54 %

Technical Skills

Languages: Python, R, C, C++, SQL

Developer Tools: VS Code, Eclipse, , Android Studio

Technologies/Frameworks: Linux, GitHub WordPress

Library: PyTorch, TensorFlow, Keras, Numpy, Pandas, Scikit-learn, NLTK

Projects

1. Information Extraction from Documents

Ongoing

Natural Language processing, Computer Vision, Python, PyTorch

- Extracting information from Visual data like images, graphs based on the question asked by user.

2. Underwater Image Enhancement

Feb 2021 – May 2021

Generative Adversarial Network and Deep learning

- This project is a part of the course "Computational Imaging" at IIT Jodhpur. The aim of the project is to enhance the input image in any such means that the output image is more compatible for interpretation by the humans as well as by way of machines.
- The processing of image is done using modesteing histogram equalization technique and for denoising, Median filtering and deep learning techniques.

3. Abstractive Text Summarization

Feb 2021 – May 2021

NLP, LSTM, Deep learning Attention Network

- To generate new short sentences from the original long paragraph such that the meaning of the sentence remains the same.
- The implementation consists of implementing 3-stacked LSTM for encoder having 3 abstract storing data layers with parameters of latent dimensions and embedding dimensions of 300 and 100 respectively with sparse categorical cross entropy loss.

4. Don't Disturb Application

Dec 2020 – Feb 2021

Java, Android Studio

- Developed an android app using Java and Sensor spark which automatically put the phone on Do not Disturb (DND) mode depending on the already feeded time-zone, location driving speed.
- It can automatically detects that user is driving a vehicle or not. If user is driving then it silent a phone automatically and does not make it normal until user reaches the destination or driving the vehicle.
- Used firebase for authentication, integration and storing real time data and sensor spark for acceleration function, gaussian systemation rotation vector.

Self Projects

1. Face Recognition System

Jan 2021

OpenCV, Python

- Training and testing a model using openCV and Python to detect the faces.

2. Fake News Prediction

Nov 2020

Natural Language Processing, Logistic Regression

- Train a model to predict whether a news is fake or not given a sentence.

3. Loan Status Prediction

Oct 2020

Support Vector Machine

- Prediction the loan status using Support Vector Machine model using Sklearn library

4. Gold Price Prediction

Oct 2020

Random Forest Regression, ML

- To predict the gold prices using random forest regression technique.

5. SONAR Mines vs Rock Prediction

Sept 2020

Logistic Regression

- Train and test a logistic regression model for a binary classification task of predicting mines or rock.

Leadership / Extracurricular

1. Best Teaching Assistant

Sept 2020 – June 2021

Department of computer Science and Engineering, IIT Jodhpur

- Awarded as the best TA for the course Introduction to Computer Science

2. Class Representative

Sept 2020 – Present

MTech AI, IIT Jodhpur

- Representing the M-Tech AI batch-21

3. Branch Representative

Dec 2020 – Present

CSE Society, IIT Jodhpur

- Representing the M-Tech CSE/AI batch-21