

Khushboo Kumari

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EDUCATION

BITS - PILANI, PILANI CAMPUS

B.E. (HONS.) COMPUTER SCIENCE

MINOR IN DATA SCIENCE

2017-2021 | Pilani, India

CGPA: 8.37

SIMULATALA AWASIYA VIDYALAYA

Bihar board

State Rank-1 in class XII

Score: 86.2%

State Rank-5 in class X

Score: 96.4%

COURSEWORK

UNDERGRADUATE

- Discrete Structure in Computer science
- Computer Programming
- Database system and Management
- Object Oriented programming with Java
- Logic in computer science
- Data Structure and Algorithm
- Linear Algebra
- Probability and statistics
- Foundation of Data science

SKILLS

PROGRAMMING

Basic learner:

• PHP • JavaScript • HTML

Advanced Learner:

• C • R • C++ • Java
• Python(Numpy, Matplotlib, Pandas)

Frameworks:

• TensorFlow • Keras • Autocad • git
• Microsoft SQL server management
• Jupyter Notebooks

MOOCS

- Machine Learning
- Deep Learning specialisation
- Computer Vision
- python for everybody
- Sequential Model

RESPONSIBILITIES

Machine Learning Mentor, ACM-W

- Conducted session on Machine Learning and Mentorship program for freshers.
- Helped the new members of ACM-W by guiding them in machine learning and competitive programming

EXPERIENCE

INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY,

KERALA RESEARCH INTERNSHIP | CODE

Dec - Dec 2018 | Guide: Dr. Deepak Mishra

- Developed an encoder-decoder based deep learning model for image steganography

INSTITUTE OF SEISMOLOGICAL RESEARCH RESEARCH INTERNSHIP| CODE

May 2019-July 2019

- Developed a data requesting tool to extract data based on time interval and event from extensive data coming at ISR
- Developed the web application of this tool in PHP to help ISR employees extracting data based on their query.

PROJECTS

DETECTING MALICIOUS DEVICES IN FOG NETWORK Guide: Dr. Shashank Gupta

- Detecting Malicious devices using Intrusion detection System, and storing log files in Virtual Honeypot Device.

FACE RECOGNITION USING DEEP LEARNING

- Used a deep CNN model to extract a multidimensional embedding and used them for the face recognition task
- Used Dlib library to detect faces from a live video camera.

SEMANTIC SEGMENTATION Guide: Dr. Pratik Narang

- Developed a U-Net based model for semantic segmentation with IOU of 0.8756
- Although the model has been trained on Ade20K scenery data set, it can be used in autonomous driving and medical diagnosis with some fine-tuning.

RECOMMENDER SYSTEM FOR MOVIE Guide: Dr. Amit Dua

- Used Boltzmann machine for recommendation which is unsupervised way of deep learning.

WORKSHOP

- Attended IOT Security Workshop by Cisco

AWARDS AND ACHEIVEMENTS

- **Sakura Exchange Program in science '18, Japan** -selected in a group of 116 students from all over India to participate in this program.
- **Microsoft Codess '19** -Selected by Microsoft in group of 250 girls from all over India for improving technical skills by organizing assignments, webinars and mock interview.
- **Santha E. Iyer Scholarship** -For holding rank-1 among girls of Merit cum Need scholarship.
- **Raman Award** - For securing State Rank-1 in 12th board among about 1.2 million candidates received the Raman Award from IPS Smiriti Trust.
- **Excellence Award** For securing state rank-5 in 10th board received an excellence award from BSEB.