

Deepak kumar

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EDUCATION

Indian Institute of Technology, Mandi, Himachal Pradesh

BTech in Computer science and Engineering

1 August 2017 - Present

Jawahar Navodaya Vidyalaya, Kottayam, Kerala

CBSE 12th Standard in Science

CGPA: 7.84

2015 - 2017

Jawahar Navodaya Vidyalaya, Muzaffarpur, Bihar

CBSE 10th Standard

Percentage: 91.4 %

2010 - 2015

CGPA: 10

COURSES

- **Completed:** Data Structures and Algorithms, Deep Learning and Applications, Communicating Distributed Processes, Digital Image Processing, Pattern Recognition, Performance Analysis of Computer Networks, Information and Database systems, Computer Organization, System practicum, Paradigms of Programming, Applied Database practicum, Mathematical Foundations of Computer Science, Computation for Engineers, Design Practicum, Linear Algebra, Probability and Statistics

TECHNICAL STRENGTHS

- **Languages:** C/C++, Python, Javascript, Bash, MySQL, HTML, CSS
- **Tools and Frameworks:** Git, Github, Flask, Google Colab, Keras, Tensorflow, MongoDB, Express js, React.js, Nodejs

INTERNSHIPS

Truminds Software Systems Pvt Ltd.

9th Dec 2019 - 31st Jan 2020

Developed a device simulator using virtual networking which replicate scenario of Yacht where many people connected to service and generating load. Here, created number of namespaces where each one work like single device having its own ip and mac address in particular vlan and generating load.

Also created data plane simulator which simulate network screen and verify it. Here, populated data according to particular hierarchy.

PROJECTS

- **Lane detection for autonomous vehicles :**
Lane detection for autonomous vehicles using well-known canny edge detection method, hough transformation and other image processing techniques. Different triangular image masks has been used in order to cover different situations.
- **Gender and Age group prediction :**
Gender and Age group prediction of human face and also analysis of chained model(chaining age group with gender) using Convolutional neural network. Model trained on Adience dataset on Google colab platform. Align the image precisely using dlib and OpenCv2 for better accuracy.
- **IIT Mandi donation drive :**
Information and Database Systems Under Dr. Arti Kashyap
 - **Flask Web-app Development :** A webapp Developed in python based framework Flask(a python framework) where people can donate money to clubs(including NSS).Here people can donate money,blood, daily use items.
 - **Data Management and Optimization :** Functionalities of MySQL used to make a fully functional website.
- **Apple sorting Machine(2nd prize winner)**
Design Practicum under Dr. Ajay soni and Dr. Rajeev kumar
 - **Image processing :** Colour and size sorting of apple using image processing.
 - **Convolutional neural network :** External quality sorting of apple done using Convolutional neural network
- **SeMEnD:**
A MERN webapp where one can sell book after end of semester or final examination.

AWARDS AND ACHIEVEMENTS

Got award of 'Best performer-Winter internship 2020'
Dakshana Scholar, Samsung star scholar, Navodaya scholar

POSITION OF RESPONSIBILITY

Dakshana college representative of IIT Mandi 2K18-19