## **SHUBHAM PANTH**

UG(III Year II Semester) Contact No: 8445076152

Email: shubhampanthdps@gmail.com Registration No: B.Tech./CE/17113115/2020

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Area of Interest				
Machine Learning ,Artificial Intelligence ,Deep Learning, Android Development ,Data science, Ethical Hacking				
Education				

Year	Degree/Examination	Institution/Board	CGPA/Percentage
	Bachelor of Technology (B.Tech		
2019	3 <sup>rd</sup> Year)	Indian Institute of Technology, Roorkee	7.37
		RAMAKRISHNA VIDYA MANDIR	
		(CBSE)	
2014	Twelfth		82 %
		DELHI PUBLIC	
2012	Tenth	SCHOOL,GWALIOR (CBSE)	10.0

\_\_\_\_\_ Internships

## Addverb | Industrial Automation

2 months

- Worked as an intern in robotics department in Addverb Pvt. Ltd. a company specializing in industrial automation
- Worked on automated guided vehicle (AGV) for localization and navigation involving automatic docking for charge.
- Implemented line tracking algorithm (local planner) for sorting robot and developed centralized traffic management of multi robot system.

**Projects** 

## **EEG Signal Processing and classification | IIT ROORKEE**

September 2018 to March 2019

- EEG signal (brain source) processing and classification using machine learning
- Analyzing the data involving data cleaning, interpreting it for the purpose and visualizing it using matplot and seaborn libraries.
- Worked with Artificial Neural Networks (ANN) and other machine learning algorithms such as Logistic Regression, Decision
- Tree, SVM and Random Forest for classifying the data, Gradient boosting algorithms like XGboost and Adaboost and further using the model for predictive analysis.
- Driving of a robotic bot through receiving real time data using a neuro-headset and classifying it based on the trained model.

## Traffic Analysis using deep learning | IIT ROORKEE

Jan 2020 - Present

- Traffic Analysis and vehicle tracking using deep learning
- Image segmentation using Mask R-CNN built on Resnet101 and FPN.
- Vehicle behavior and trajectory tracking using the improved IOU tracker technique with visual tracking extension.

- Surveyed region of Roorkee with an area of 12.54 sq kmas per AMRUT guidelines
- Developed a common digital Geo-referenced base maps and land use maps using GIS
- Carried out the Digitization of the area using the software Arc GIS and ERDAS IMAGINE

# Awards / Scholarships / Academic Achievements

- Received third position in Hunar 2.0 entrepreneurship challenge at zonal level and qualified for the national level 2018-19.
- Participated in Machine Learning 2 days Hackathon conducted by Innovaccer pvt. ltd. And received top 10 rank among teams .

## \_Work Experience

• Written and published blog on "Detection of Fake and False News (Text Analysis): Approaches and CNN as Deep Learning Model" at 'analyticssteps.com'

#### **Skills**

• Computer languages

C,C++,Python

• Software Packages

Android studio, Arc GIS ,Jupyter ,MS Excel, MS PowerPoint, MS Word, MS Access

• Languages Known

English (SRW), Hindi (SRW)

## Positions of Responsibility & Extra Curriculars

## Cognizance

• coordinated 'Machine Learning and AI' workshop in cognizance,19

## N.S.O IIT Roorkee

• Got selected and trained in Table Tennis sport under N.S.O. IIT Roorkee

#### References

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