102, Hostel,
IIT JAMMU, India

ROHIT KUMAR

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EMPLOYMENT

Deep Learning Intern	**The Captury, Germany**	**October- December'2020**

- Developing a deep learning model for fast background subtraction.

Deep Learning Intern	**The Captury, Germany**	**Summer 2020**

Automatic 3D human face landmarks annotation.
- Developed full facial feature pipeline for 3D human mesh
- Worked with blender, OpenCV, DLib in Python. Used OpenCV's deep learning-based face detector and Dlib's face landmarks algorithm for feature annotation

Face Expression Transfer via shape key/ morph key prediction
- Worked with classical approach. Analyze the shortcomings to the complex task. Result can be seen here
- Developed a deep learning model for the same task. Worked in Character Creator, Blender, PyTorch

Research Intern	**IIT Bombay**	**Summer 2019**

Under the guidance of Prof. Virendra Singh, worked on object detection and deep learning methods for it .

EDUCATION

Indian Institute of Technology	**IIT Jammu**	**August 2017-21**

- B.Tech in computer Science, with a current GPA of 7.11
- Undergraduate Coursework: AI; NLP; Computer Vision; Parallel & distributed programming; Engineering Adaptive Software; Operating Systems; Databases; Data structures & Algorithms; Programming Languages; Comp. Architecture; Comp. Networks

TECHNICAL EXPERIENCE

Research Projects
Our paper ***Smart Data Agent for Preserving location privacy*** has been accepted for publication in Symposium Series on Computational Intelligence (**IEEE SSCI**)

Other Projects
- Silver in Bosch's Route Optimization problem in InterIIT Tech Meet'19 *(**Optimization**)*
- 3rd Rank among 20 teams in *Innovate for IIT Hackathon* organized by PRITHVI.AI (Nov'19) *(**Sentiment Analysis**)*
- 1st Rank in Mazex- maze solving bot during Technunctus'19, IIT Jammu. *(**Robotics**)*
- 9th rank in PlutoX hackathon in InterIIT Tech Meet'18 *(**Drones**)*
- I have worked with Neural Style Transfer; object detection; GANs; segmentation; visual odometry; depth maps; Text generation; Music generation; etc.
- I have done various courses on Coursera in Deep learning; Reinforcement learning; Natural language Processing; AI in medicine; List of certificates

Languages and Technologies
Python; C; C++; PyTorch; Pytorch3D, TensorFlow, OpenCV, Blender, Character Creator

Position Of Responsibility
I have been elected as Cultural Secretary'19-20. I have successfully led for two consecutive years the teams of 30 members for the 10 days long Foundation day Programme of IIT jammu. I also started Student Mentorship Programme for the first time at IIT Jammu starting with the batch of 2019.