Rohit Kumar (2017UCS0054)

भारतीय प्रौद्योगिकी संस्थान जम्मू
INDIAN INSTITUTE OF TECHNOLOGY JAMMU
विद्याधनं सर्वधन प्रधानम्

ACADEMIC QUALIFICATIONS

Year	Degree/Examination	Board/University	%/CGPA
2017-21	BTech (Computer Science And Engineering)	IIT Jammu	7.26
2016	12th	CBSE	86
2014	10th	CBSE	10

ACADEMIC ACHIEVEMENTS AND SKILLS

Skills	▪ Python; C; C++; Java; Pytorch; Tensorflow; OpenCV; Blender; Qt; Character Creator
Undergraduate Coursework	▪ AI; NLP; Computer Vision; Parallel & Distributed Programming; Engineering Adaptive Softwares; Operating systems; Databases; Programming Languages etc.
Other Courses	▪ Deep Learning Specialization, Reinforcement Learning specialization, AI In Medicine : Certificates

INTERNSHIPS

Deep Learning Intern	▪ Under the mentorship of Dr. Nils Hasler, at The Captury, Germany. **(Sept-Dec'20)** ▪ Worked on a fast background subtraction using deep learning. Improvised using synthetic data.
Deep Learning Intern, The Captury, Germany	P1 : *Automatic 3D human face landmarks annotation* **(May-July'20)** ▪ Developed a full facial feature detection pipeline for 3D human mesh. ▪ Worked with Blender, OpenCV, and DLib. Used OpenCV's deep learning based face detector and DLib's landmarks algorithm for feature annotation. P2 : *Shape-keys / Morph keys prediction and recreating for human expression from 3D mesh data* ▪ Generated data from scratch. Worked with a classical approach. Analysed the shortcomings to the complex task. Results can be seen here. ▪ Developed a deep learning model for the same task. Worked with Character Creator, Blender, PyTorch.
Research Intern	▪ Research internship under Prof. Virendra Singh, IIT Bombay. **(May-July'19)** ▪ Worked on Object detection and deep learning methods for it.

RESEARCH PAPERS

Paper 1 IEEE-SSCI	▪ **Smart Data Agent for preserving location privacy** published in IEEE-SSCI. Link **(Dec'20)** ▪ Built a neural network based smart cloaking agent for location privacy.
Paper 2 IEEE-AINA	▪ Submitted **A Reinforcement learning based agent for location privacy**. **(Jan'21)**

PROJECTS

Home Camera Security	▪ Developing a software in Qt5 for home security monitoring using the camera mounted. ▪ Users will receive notification for any suspicious activity at home while he is away.
Image Editor	▪ Developed an Image Editor with OpenCV as a processing module in Qt5 and C++. Github
Others	▪ 3rd among 20 teams in Innovate for IIT Hackathon organised by Prithvi.ai **(Nov'19)** ▪ Silver in Bosch route optimization in InterIIT Tech Meet'19**. (optimisation)** **(Dec-19)** ▪ 1st in Mazex : a maze solving bot in Technunctus'19, IIT Jammu. **(Robotics)** **(March-19)** ▪ 9th among 20 IITs in Plutox Hackathon in InterIIT TechMeet'18. **(Drones)** **(Dec-18)**

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