Rohit Kumar

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★ EDUCATION

✤ BTech in Computer Science And Engineering

Indian Institute of Technology Jammu (${\bf IIT}$), India

♦ KaggleX 3rd Cohort Mentee

Reinforcement learning with Mentor Shrinivasan Sankar

\clubsuit Coursera Certifications

Deep Learning Specialisation from DeepLearning.AI; Reinforcement Learning Specialisation from University of Alberta; Computational Neuroscience by University of Washington; Synapse, Neuron and Brain from Hebrew University; AI for Medicine Specialisation from DeepLearning.AI

B Work Experience

W Low-Resolution Hand Tracking : Pioneered the development of cutting-edge hand tracking technology, optimizing performance for low-resolution inputs, and delivering highly accurate results across diverse real-world applications.

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♥ Python Bindings: Developed a Python library using Python-C APIs for batch processing, server farm utilization, dataset generation, and efficient internal testing. Widely used internally and by clients for processing large volumes of 3D-tracking data.

♥ In-House Data Generation: Leveraged expertise in 3D simulation software (Unreal Engine, Unity3D, Blender) and CapturyLive for compelling demos and data generation, enhancing Captury's market presence.

Client Support Calls: Led client interactions, effectively identified their needs, and provided tailored technical solutions.

>_ Software Builds: Enhanced and optimized the build process through advanced CMake scripting and C++ integration.

01/2022 − Present Feature Release

03/2022 - 06/2022 §

7.4 / (10 is highest)2017 - 2021

08/2023 - 11/2023 🔗

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Reinforcement Learning based Smart Data Agent for Location Privacy	08/2020 - 01/2021
AINA'21 (Advanced Information Networking and Applications) Page(s): 657-671	
E Smart Data Agent for Preserving Location Privacy IEEE-SSCI'20 (Symposium Series on Computational Intelligence) Page(s):2567 - 2575	01/2020 - 08/2020
O Term Paper on Adaptation in cloud computing Advisor: Prof. Naveen Sharma, Rochester Institute of Technology, New York, USA	01/2021 - 04/2021
Conference Paper Reviewer 8th international conference on Computer Vision and Image Processing (CVIP) 2023	06/2023 - 09/2023
Internships	
4 Year long Research Collaboration with National Institute of Informatics(NII), Japan. Advisors: Prof. Isao Echizen NII, Japan; Dr. Harkeerat Kaur, IIT Jammu	04/2020 – 03/2021 NII Japan - IIT Jammu
Deep Learning Intern Captury GmbH, Mentor: Dr. Nils Hasler (CTO) & Michal Ritcher (Sr. SW Dev.), Co-Founders	05/2020 — 12 / 2020 Saarbrücken, Germany
• Fast Background Subtraction : Developed a deep learning model with randomization of foreground (Humans) and backgrounds(COCO)	
• 3D Face landmark Annotation : back-projection using ray cast in multiview geometry instead of point triangulation.	0, 0
• Facial expression - shape key prediction : Worked on shape key prediction using 3D characters from Reallusion, data generation, and randomization of shape keys in Blender. Analysis using SVD and initial Deep Learning model - FAN model. This project eventually led to a bigger project in Captury to solve the task using Deep Learning.	0
A Machine Learning Research Internship Topic: Object Detection Advisor: Prof. Virendra Singh, IIT Bombay	05/2019 - 07/2019 Bombay, India
Skills & Others	
✗ Tech Stack: Python. C++, C, CPython, CMake, Pytorch, Tensor- flow, Qt, Unreal Engine, Unity, Blender, Reallusion, Deep Learning, Re- search, Computer Vision, Reinforcement Learning, NLP, Linux, Git,	
▲ Leadership: Cultural Secretary, IIT Jammu 2019-2020. Led a team of 30 for 10 day long Foundation Program	G
✓→ Hackathons: InterIIT Tech Meet 2019 - Bosch Route Optimisation, InterIIT Tech Meet 2018 - PlutoX Innovate for IIT by Prithvi.AI, Mazex in Technunctus, IIT Jammu	ଡ