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Bangalore, India

Rohit Gulati

Data Scientist

Looking for an opportunity in a progressive organization working on building Autonomous Solutions using Machine Learning and contributing to it with dedication and creativity as my assets.

Skills

- Python, Java
 - Deep Learning, Computer Vision, Data Preparation, Object Detection
 - OpenCV, TensorFlow, Keras, Pandas, NumPy
 - Data Structures and Algorithms
 - Game Development, Unity3D, AR/VR
 - AWS, Azure
 - MySQL
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Academic History

The NorthCap University
Gurgaon, Haryana
B.Tech - Computer Science
2015 - 2019

Pathania Public School
Rohtak, Haryana
High School(C.B.S.E.) - XII
2015

Awards & Recognition

- Top 20 in National HealthTech Challenge 2018, Singapore
- Runner-up SAMHAR-COVID19 Hackathon organized by the Government of India and Nvidia
- 1st Runner Up in Facebook AR Hackathon
- Member of Facebook Developer Circle
- Alibaba-UC Bellwether (North-Region)

Experience

Tata Consultancy Services (Data Scientist)

Jul'19 - Present

- Developing Computer Vision based ADAS features for Self Driving Cars
- Building state of the art Object Detection, Instance and Semantic Segmentation models using Yolo, ResNet, Deeplab, Faster R-CNN, Mask R-CNN architectures
- Working on gathering and Preparing Data to building Training, Evaluation and Inferencing Scripts
- Working with partners like NVIDIA, Microsoft, BMW, Intel to take autonomy to the next level
- Leveraging computing powers of GPUs using CUDA and NVIDIA NGC Containers
- Developed Computer Vision solutions to tackle Covid-19 pandemic, helping more than half a million people across the world

Mages Studio, Singapore (Game Developer)

May - Jul'18

- Developed gamified solutions for Singapore Health Council
 - Virtual Reality interactive solutions for kids dealing with cancer
 - Augmented and Virtual Reality immersive solutions to help patients deal with Pre-Operative Anxiety
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Projects

HygieneNet

Deep Learning, Azure CustomVision, TensorFlow JS, JavaScript, Vue JS

- Computer Vision based hand wash object detection solution to help people maintain hygiene during this pandemic
- Gamified version increased adoption of tech by 70%
- Optimized for running on low capacity CPU with no GPU requirements
- Appraised and being Implemented by the VP and Global HR Head
- Helping 500,000+ people across the world maintain good hygiene

AI-assisted Data Annotation

Deep Learning, Computer Vision, TensorFlow, Azure, MLFlow, Docker, NVIDIA NGC

- Bounding Box, Instance and Semantic Segmentation models to assist manual annotation for Data Annotation Studio(TCS DAS)
- Using Mask R-CNN and DeepLabV3+ architectures
- Aided with transfer learning using models pre-trained on COCO, ADE20K, Cityscapes, Pascal VOC datasets
- Running in NVIDIA NGC Containers high performance
- Integrated with MLFlow for version controlling and logging
- Drastically reducing Costs and Time by 85%

Road Marking Detection

Deep Learning, Computer Vision, Keras, Azure, MLFlow

- Advanced driver-assistance system for navigation through detection of road markings(European Geography)
- Using state of the art Object Detection model(RestNet as backbone) for high accuracy and quick inference time
- Integrated with MLFlow for version controlling, logging and analytics
- With average detection accuracy of 95%