Utkarsh Verma

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Education

2015 - 2019 **Delhi Technological University**
Bachelors of Technology, Electronics and Communication Engineering
CGPA - 7.92/10.00

2012 - 2014 **Kendriya Vidyalaya, Allahabad**
Senior Secondary Certificate Examination, CBSE
Aggregate Score - 89.4%

Bio & Career Objective

Self motivated and quick learning software developer with over 8 months of experience working on C++ and Python projects. I'm Looking for a challenging and impactful work profile, where my code visibly brings a difference to the product and experience the thrill of getting it deployed in production. Having primarily worked in the domain of Computer Vision, I am always open to explore new avenues in software development.

Work Experience

Jul 2019 - Present **Software Developer**
Samsung Research Institute, Delhi
- Implemented various object localisation and detection models on Smart TV frames as a solution for Logo Detection. Thoroughly worked on the state-of-the-art models (M2Det etc.) for object detection as well as light-weight architectures (Mobilenet-SSD etc.) for bringing the model on-device.
- Maintained and resolved the bugs in the Auto-Detection service on the TV Platform to release the new updates with fixed patches.

May 2018 - Jul 2018 **Research Intern**
Central Electronics Engineering Research Institute, Pilani
- Implemented the state-of-the-art deep neural network architecture for Super-resolution and Enhancement of images and trained it on a dataset of 800 high-resolution images.
- Developed an end-to-end architecture for document image Super-resolution, denoising and artifacts removal for optimum performance and robustness.

Skills

Languages	C/C++, Python, Go (Beginner)
Database	MySQL
Frameworks	PyTorch, TensorFlow
CV Fields	Object Recognition, Object Detection and Localisation, Pose Estimation
Miscellaneous	Git, Docker

Projects

Dec 2019 **Fitness TV**
Samsung Research Institute, Delhi
Made an app for instructing the user in achieving a particular pose which he gets to choose beforehand. The backbone of the app was based on Posenet Architecture. Also introduced an eye-gaze detection feature to let the user choose an option just by looking at it on the screen.

Jan 2019 - May 2019 **Fast Feature Enhancement in Low-Light Images**
Prof. S. Indu, HoD, Department of Electronics and Communication Engg.
Trained a U-Net based model to achieve equivalent picture quality of a long-exposure, high ISO camera setup in dimly lit conditions and poorly exposed scenes. Further it was fine-tuned to incorporate denoising, deblurring and enhancements which are otherwise obtained by post-processing photography techniques.