**Setup a Deep Learning workbench for Computer Vision**

**Getting started with open challenges from Kaggle, Codalab, Hackerearth**

**Create powerful research for the real world with MonkAI**

**What you’ll learn**

* What constitutes a Deep Learning Engineer's daily routine
* Setting up your own Deep Learning toolkit and processes
* Understand how to make quick prototypes using MonkAI
* Core features from MonkAI like resume, compare, copy and much more...

**Pre-requisites**

* Basic Python programming
* Exposure to Deep Learning terminologies

To learn more about MonkAI checkout :

* [Website](https://monkai.org/)
* [Github](https://github.com/Tessellate-Imaging/)

Several key decision making processes today require Visual Intelligence. The innate ability to percieve, process and decide based on visual inputs is one of the key definitions of intelligence. Mimicking this intelligence into silicon based machines has been a task pursued by researchers since decades.

With an explosion in commercial applications in the domain of Computer Vision, Deep Learning algorithms have become a go to strategy whenever a new research problem is brought to light.

In this webinar we will go over how researchers and developers can tackle open-ended Computer Vision challenges using our Deep Learning toolkit, MonkAI. We'll go over some of the core offerings of MonkAI, understand how to handle and explore datasets, learn how to fine-tune prototypes and compare experiments to finally generate insightful analysis from these experiments. Along the way we'll look at some of the expert mode features available inside MonkAI.

Viewers can follow along on any of the available Kaggle challenges. We'll setup our workflow while applying Transfer Learning to the problem of Image Classification.

**Caution for dreamers : Building SOTA in a day is impossible. Please keep your expectations to beating the baseline.**

Featuring speakers of this meetup are Abhishek Kumar and Akash Deep Singh from Tessellate Imaging, India. [Tessellate Imaging](https://tessellateimaging.com/) helps businesses across the globe set up their Computer Vision and Deep Learning infrastructure.

**About the authors**

**Abhishek Kumar Annamraju --**[**LinkedIn**](https://www.linkedin.com/in/abhishek-kumar-annamraju/)

Abhishek’s research areas include computer vision, machine learning, natural language processing, and photogrammetry. As a part of his undergraduate thesis and then continued employment at Tata Elxsi R&D, India, he worked on on-road real-time vehicle detection. He has published research papers on cascade classifiers, shape-based object analysis, and traffic sign classifier (IET Intelligent Transport Systems journal). His past projects include image-based monitoring solutions to curb illegal sand mining, 3D facial model generation and classification, deep learning based face recognition, and camera auto-calibration for fisheye images (Tesseract Imaging, India). He was also a part of the Mahindra Rise Challenge 2014 and developed real-time stationary-cam object detection modules. He participated in the Google Summer of Code (GSoC) 2016, working with Open-Detection, to develop GUI-based deep learning training and classification system. His research work includes projects involving forensic sketch to image matching and biomedical image processing. Abhishek got his B.E (Hons.) degree in Electrical and Electronics from BITS Pilani, K.K. Birla Goa Campus.

**Akash Deep Singh --**[**LinkedIn**](https://www.linkedin.com/in/akashdeepsingh01/)

Akash is a tech wiz, passionate about solving real-world problems with artificial intelligence and machine vision. He’s worked on building novel systems to detect & classify glioma cancer and a camera-based real-time stat generation solution for basketball players. He was also part of the team which built India’s first panoramic camera where he acted as the Machine Learning Lead. His past projects include autopilot firmware for search and rescue drones, building disguised and imposter face recognition software, an all-terrain navigation vehicle, and sketch to face image matching for forensics. A national cyber Olympiad gold medalist, he loves reading books. Akash earned his B.E. (Hons.) degree in Electronics and Instrumentation from BITS Pilani, K.K. Birla Goa Campus.