**Skylark Drones Internship (01/06/2016-29/07/2016)**

Projects/Works done at Skylark:

1. Comparison of Pix4d and ODM on Azure Cloud using a Docker. (Conclusion: continue with pix4d as odm has too many bugs and less user technical support).
2. Generating Mbtiles file samples.
3. Render Mbtiles from Mapbox server or own server. (Conclusion: Mapbox server has limitation of file upload to 25GB).
4. Demo-app using Mapbox APIs. (Mapbox GL js)
5. Flight Checklist Forms made using JotForm.
6. Web Forms: Flight Check List for Flight Operations giving saveable pdfs of each checklist as output. (Forms: All system go, D-Day, Airframe, Toolkit, Log-book). (Lang used: HTML, CSS, JavaScript)
7. Skylark Drones website from scratch under instructions from karthick(UX/UI). (Website Skeleton and all UI complete but final release not made due to karthick’s review was pending due to his medical conditions). (Lang used: HTML, CSS, JavaScript)
8. Mapbox GL js integration tried.
9. Research on pricing of Mapbox servers.
10. Clustering Application: Application made using python n for clustering of images (dividing images into separate folders). (Logic: The images received from drone for flight is divided into folders, each of containing images for 1km stretch of data. Division is done on the basis of GCP points placed.
11. UTMToLatLong Application: Application made using python to convert UTM coordinates to Latitude Longitude coordinates for GCP points.

Extra Knowledge gained:

1. GIS(basics).
2. JavaScript.
3. jQuery(basics).
4. Mapbox(basics).
5. Bit of Angular2, Node js, Express, Sailsjs.
6. Drone Operations.