MANOHAR ERIKIPATI
Curriculum Vitae

Email : manoharuss@gmail.com
Work Portfolio : manoharuss.github.io

Github : github.com/manoharuss
LinkedIn : linkedin.com/in/manoharuss

Skills

- Code - PySpark, SQL, Python with Pandas and matplotlib, Node.js, Matlab.
- Cloud - AWS platform with EMR, ECS, Lambda for compute. Data-warehousing with Athena, S3. Databases DynamoDB, RDS.
- Orchestration - Apache Airflow, Dagster.io.
- Geospatial - Mapbox developer tools, Tippecanoe, GDAL, QGIS.
- Containerization - Docker.

Professional Experience

2019 – 2021 **Senior Data Engineer at Mapbox - Washington D.C.**
I've built ETL pipelines with Pyspark in the Basemap team. I was a core cartographer for 2 layers on Mapbox Streets production map.
I've built a conflation engine with spatial clustering to merge large address datasets from multiple commercial vendors.
I owned and maintained production to deliver OSM PBF partitions daily to internal customers at a 24hr interval.
I updated internal CI/CD environment from Python 3.5 to Python 3.7 for nearly 20 data pipelines.

2018 – 2019 **Map Data Engineer at Mapbox - Bangalore**
I've built a data validation stack for OpenStreetMap to catch vandalism in daily updates as part of the Cartography team. The system protects Mapbox from ingesting geodata with graffitti, profanity and hate-speech. I achieved a 99.999 SLA with my team.
I was on-call for resolving business critical map incidents and root-cause analysis for vandalism.
I documented my work in OpenStreetMap diaries and presented at open data conferences such as State of the Map held in Japan in 2018.

2016 – 2018 **Data Analyst at Mapbox - Bangalore**
I started as a OpenStreetMap analyst in the Mapbox data team. I was point of contact for all data validation errors in OSM dataset.
I helped build OpenStreetMap Changeset analyser osmcha.mapbox.com and wrote the usage guide for it.
I resolved critical issues of map vandalism in OpenStreetMap for Mapbox management.
I participated in mapping for Humanitarian OpenStreetMap Team projects such as Mapping for Malaria eradication.

2012 **Systems Engineer Trainee at Infosys - Mysore**
For a 4 months period, I was a trainee learning object oriented programming with Java at Infosys training center.
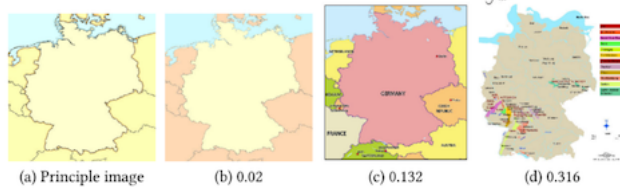
Academic Education

2012–2015	**MSc in Geomatics Engineering, University of Stuttgart, Germany.**
2007–2011	Bachelors in GeoInformatics Engineering, Andhra University, India.

Languages

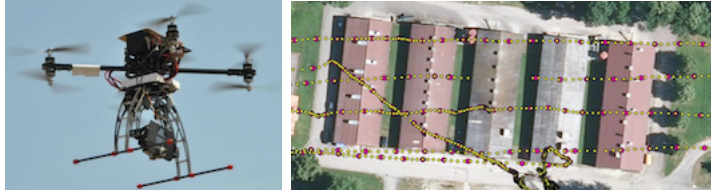|	
Telugu	Mother tongue
English	**Fluent**
German	Beginner (A1 2012)
Hindi	Fair
Kannada	Fair

Academic Projects

2015 — **Master thesis on Content based image retrieval methods - Comparison of color, texture, region and edge detection methods.**
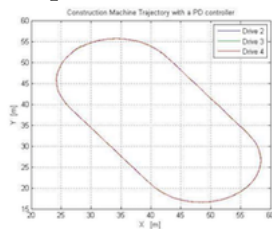

(a) Principle image   (b) 0.02   (c) 0.132   (d) 0.316

Refer to thesis report.

2014 — **Fieldwork to generate an Orthomosaic with aerial images acquired using a drone.**

Refer to field report.

2014 — **Lab work to run a toy truck with a 3point controller around a predefined loop.**

Refer to lab report.

2011 — **Bachelor thesis on using mathematical morphology for rain guage data for generating skiz maps and median maps.**

Refer to thesis report.