

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

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|-------------|---|
| 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 our ingestion system to deliver OSM PBF partitions daily to internal customers at a 24hr interval.
I upgraded 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 graffiti, 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 basemap.
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 month period, I was a trainee learning object oriented programming with Java at Infosys training center. |

Academic Education

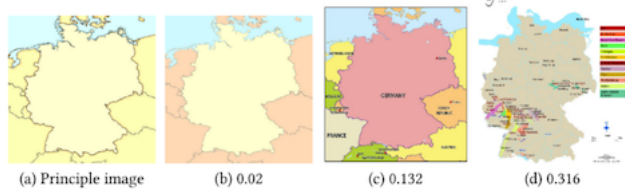
2012–2015	MSc in Geomatics Engineering, University of Stuttgart, Germany.
2007–2011	Bachelors in GeoInformatics Engineering, Andhra University, India.

Languages

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

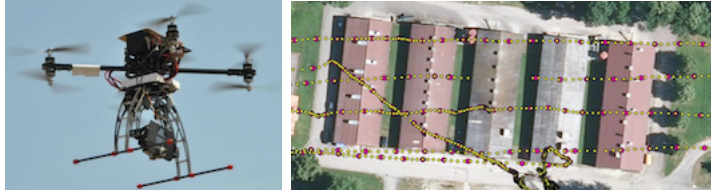
Academic Projects

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



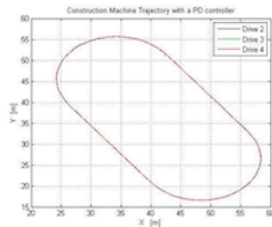
Refer to thesis report.

- 2014 | Fieldwork to generate an Orthomosaic with aerial images acquired using a UAV.



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 gauge data for generating SKIZ maps and median maps.



Refer to thesis report.