

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. Creating databases with DynamoDB, RDS.
- Orchestration - Apache Airflow, Dagster.io.
- Geospatial - Mapbox developer tools, Tippecanoe, GDAL, QGIS.
- Containerization - Docker.

Professional Experience

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| 2019 – 2021 | <p>Data Engineer at Mapbox - Washington D.C.</p> <p>I've built ETL pipelines with Pyspark in the Geodata team. I was a core cartographer and developed 2 layers on Mapbox Streets production map.</p> <p>I've built a Conflation engine for logically merging addresses to every building in the USA for the Mapbox production map and address search services.</p> <p>I maintained and was on-call for ingestion system to deliver OSM data to internal customers at a 24hr interval.</p> <p>I upgraded CI/CD environment from Python 3.5 to Python 3.7 for nearly 20 data pipelines.</p> |
| 2018 – 2019 | <p>Map Data Engineer at Mapbox - Bangalore</p> <p>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 99.9% accuracy with my team.</p> <p>I was on-call for resolving business critical map incidents and root-cause analysis for vandalism.</p> <p>I documented my work in OpenStreetMap journals and presented at State of the Map conference held in Japan in 2018.</p> |
| 2016 – 2018 | <p>Data Analyst at Mapbox - Bangalore</p> <p>I started as a Map data analyst in the Mapbox data team. I wrote documentation for mapping and validation for the OpenStreetMap database.</p> <p>I helped build OpenStreetMap Changeset analyser osmcha.mapbox.com and published the usage guide for it.</p> <p>I was on-call for resolving map errors and vandalism in OpenStreetMap for Mapbox cartography team.</p> <p>I participated in mapping for Humanitarian OpenStreetMap Team projects and presented Mapbox tools at FOSS4G Asia conference.</p> |
| 2012 | <p>Systems Engineer Trainee at Infosys - Mysore</p> <p>For a 4 month period, I was a trainee learning object oriented programming with Java at Infosys training center.</p> |

Academic Education

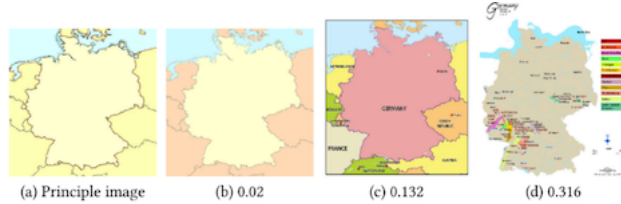
2012 – 2015	MSc in Geomatics Engineering, University of Stuttgart, Stuttgart, Germany.
2007 – 2011	Bachelors in GeoInformatics Engineering, Andhra University, Visakhapatnam, India.

Languages

Telugu	Mother tongue
English	Fluent
German	Beginner (A2 2013)
Hindi	Fair

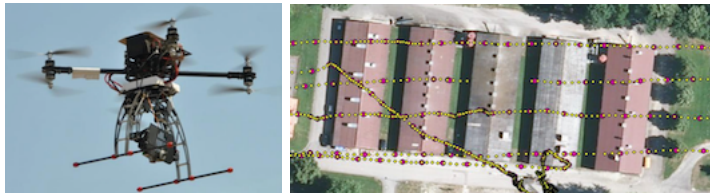
Academic Projects

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



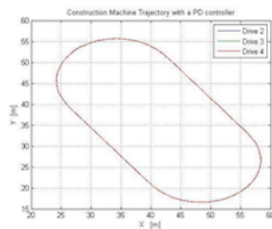
Refer to thesis report.

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



Refer to field report.

- 2013 | 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.