



# Sowmya Yellapragada

Machine Learning Engineer



+49 1522 749 7030



Stuttgart, Germany



sowmya.de



sowmyayellapragada@gmail.com



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## About me

I am an experienced MLOps Engineer with a proven track record of designing, and implementing an ML infrastructure platform to streamline and optimize end-to-end machine learning pipelines.

I am adept at collaborating with cross-functional teams, and advocating for and gaining buy-in from teams to adopt ML platform and MLOps best practices.

Seeking a challenging position to leverage expertise in MLOps, automation, and DevOps to contribute to the success of innovative projects

## Experience

Jun 2020  
Present

### Senior Machine Learning Engineer

GoPuff | Remote, Germany

- MLOps
  - Designed ML infrastructure platform to streamline and optimize ML end-to-end lifecycle.
  - Led a team and delegated tasks to develop the ML platform.
  - Advocated for the ML platform and spearheaded efforts to establish MLOps best practices across the organization.
- Machine Learning Engineering
  - Set up event-based data pipelines in multiple cloud environments (GCP, Azure) to gather training data for ML models.
  - Built microservices (>5) to host multiple ML models (XGBoost, Pytorch) and deployed them to production. These ML services received high request loads of upto 400 rps and were able to serve them at low latencies < 100 ms.
  - Facilitated A/B testing of multiple models in the ML services.
  - Implemented monitoring systems to track model performances and drift detection in production environments
- Data Scientist
  - Built multiple models to improve the accuracy of the travel time predicted by the routing engine

Apr 2019  
Jun 2020

### Data Scientist

Daimler Mobility Services GmbH | Berlin, Germany

- Built machine learning models to predict real-time road statistics such as turn costs, speeds, and personalized routing using position updates from user data. This in turn helped improve the predicted route quality and estimated travel time of the routing engine. Stack: Python, Flask, LightGBM, PostgreSQL, Docker.

May 2018  
Aug 2018

### Machine Learning Intern

Uber Technologies Ltd | California, USA

- Analyzed taxi GPS data and built a supervised learning ML model to identify cases of fraud due to GPS spoofing.

Jul 2015  
Jul 2017

### Software Developer

Zoomcar Pvt Ltd | Bangalore, India

- Built and maintained business iOS application that received over a million active monthly users. Developed new features, and handled software updates, patches, and bug fixes.

## Education

2017 Aug  
2018 Dec

### MSc. Computational Science & Engineering

Georgia Institute of Technology | Atlanta, USA

2017 Aug  
2018 Dec

### Msc. Mathematics & BE. Manufacturing Engineering

Birla Institute of Technology and Sciences | Pilani, India

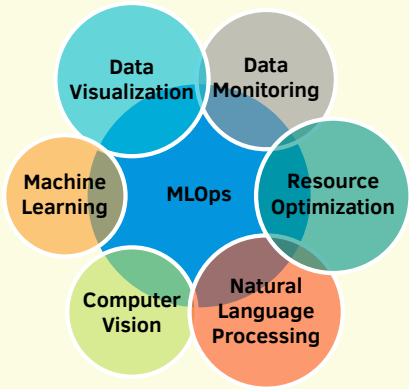
## Patents

Apr 2022

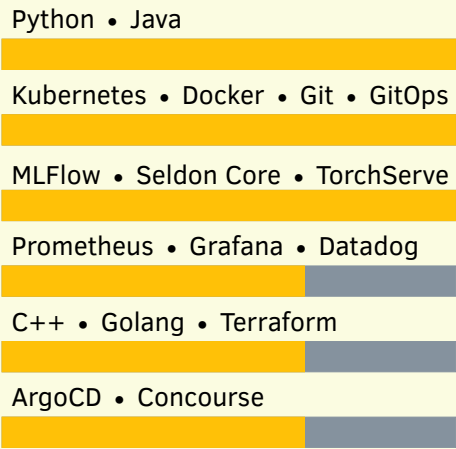
### Predicting ETA based on historical route data

- Built and patented a software system that can predict estimated travel time using a historical snapshot of road statistics such as speeds, route restrictions etc.
- This system helped us generate data for training ML models to improve the travel time estimates of our routing engine.

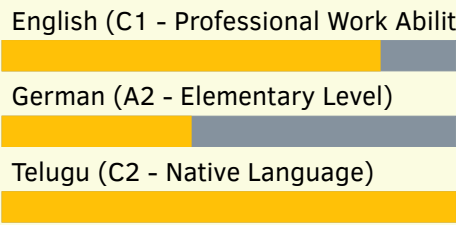
# Interests



## Programming Skills



## Languages



# Projects

Machine Learning Computer Vision	<b>Cloud detection and removal in RGB satellite data</b> • Built a deep learning model to detect clouds in satellite imagery and accurately im-paint the scene underneath the clouds while ensuring image recency.	<a href="#">Blog Link</a>
Machine Learning Graphical Models	<b>Collaborative filtering - Recommendation System</b> • Implemented and compared probabilistic inference based on graphical models such as the Restricted Boltzmann Machine, Deep Belief Network, Sparse Denoising, and Variational Autoencoders for recommending movies to users' preferences.	<a href="#">GitHub Link</a>
Python ML tool	<b>ML Project Template</b> • Easy-to-use tool to automate the boilerplate code for most machine learning projects.	<a href="#">GitHub Link</a>