



Sowmya Yellapragada

Machine Learning Engineer



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sowmya



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About me

I am an experienced software 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.

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.

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

Education

Aug 2017
Dec 2018

MSc. Computational Science & Engineering

Georgia Institute of Technology | Atlanta, USA

Aug 2011
Aug 2016

Msc. Mathematics & BE. Manufacturing Engineering

Birla Institute of Technology and Sciences | Pilani, India

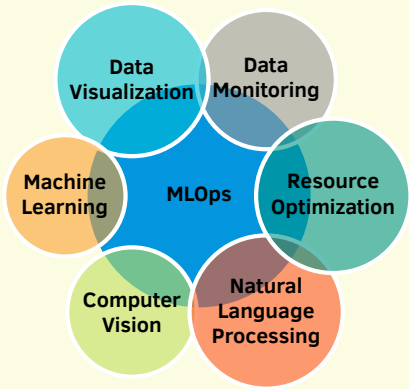
Patents

Apr 2022

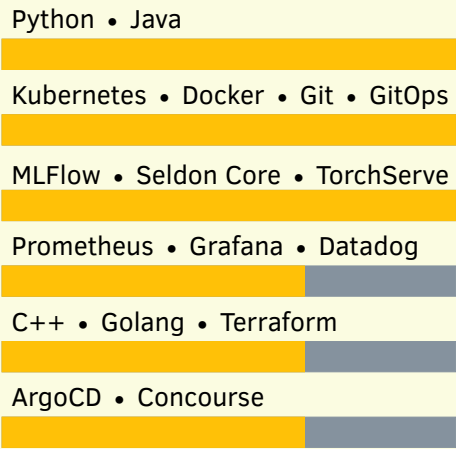
Predicting ETA based on historical route data

- 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.

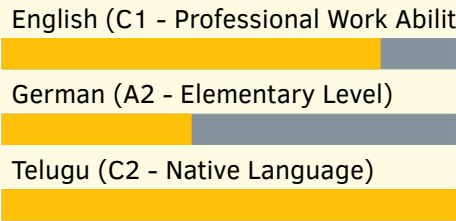
Interests



Programming Skills



Languages



Projects

Machine Learning Computer Vision	Cloud detection and removal in RGB satellite data • Built a deep learning model to detect clouds in satellite imagery and accurately im-paint the scene underneath the clouds while ensuring image recency.	Blog Link
Machine Learning Graphical Models	Collaborative filtering - Recommendation System • 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.	GitHub Link
Python ML tool	ML Project Template • Easy-to-use tool to automate the boilerplate code for most machine learning projects.	GitHub Link