







Sowmya Yellapragada


Machine Learning Engineer


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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 ML 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.

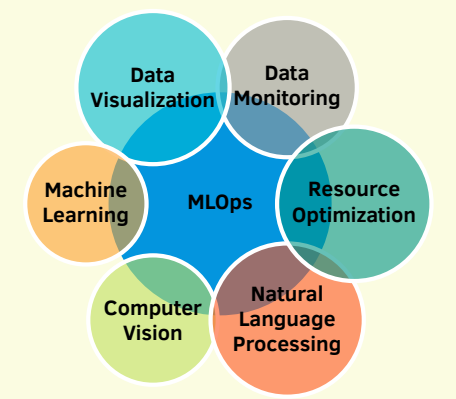
Experience

May 2024 Present	Senior ML Engineer	Wolt Enterprises Oy Remote, Germany	<ul style="list-style-type: none">• Led complex projects by coordinating project timelines and priorities with stakeholders and aligning communication and collaboration across multiple teams and different technical domains• Worked on architecting and building an embedding framework to compute and manage embeddings on core entities that were used to improve search and personalization on the platform• Deployed and maintained ranking models for consumer search
Jun 2020 May 2024	Senior ML Engineer	GoPuff (GoBrands Inc) Remote, Germany	<ul style="list-style-type: none">• MLOps<ul style="list-style-type: none">– Designed ML infrastructure platform to streamline and optimize ML end-to-end lifecycle.– Led a team and delegated tasks to develop the ML platform. Spearheaded efforts to establish MLOps best practices across the organization.• Machine Learning Engineering<ul style="list-style-type: none">– 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<ul style="list-style-type: none">– 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.

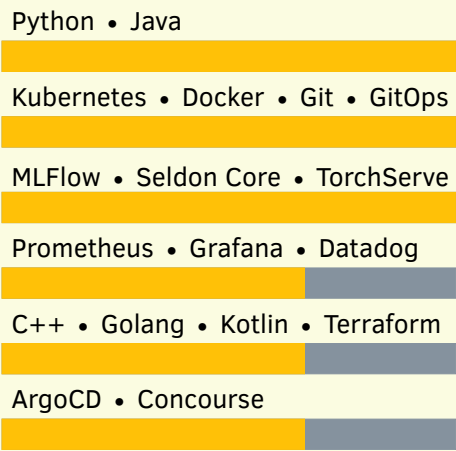
Education

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

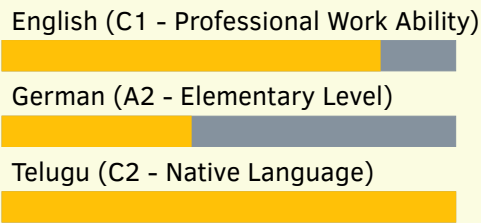
Interests



Programming Skills



Languages



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.

Projects

Machine Learning Computer Vision	Cloud detection and removal in RGB satellite data	Blog Link
	<ul style="list-style-type: none">• Built a deep learning model to detect clouds in satellite imagery and accurately im-paint the scene underneath the clouds while ensuring image recency.	
Machine Learning Graphical Models	Collaborative filtering - Recommendation System	GitHub Link
	<ul style="list-style-type: none">• 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.	
Python ML tool	ML Project Template	GitHub Link
	<ul style="list-style-type: none">• Easy-to-use tool to automate the boilerplate code for most machine learning projects.	