

# Ashok Vardhan Addala

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## Summary

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Sophisticated Machine Learning Engineer with over 8 years experience with background in independent research using intuitive, web-based architecture. Skilled in computer vision, health care and geo spatial analytics with documented history of discovering methods to intelligently use data to enhance user experience. Effectively researches techniques for novel approaches to problems, develops prototypes to assess viability of approach and deploys application into production yielding insights to expand customer-consciousness and reducing the workloads.

## Experience

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### GE HealthCare | San Ramon, CA

#### Senior Machine Learning Engineer | 12/2021 - Present

- Building **open source** high-level deep learning library called **Fastestimator** which is built on TensorFlow2 and PyTorch, helping the AI community to easily build a high-performance deep learning model and run it anywhere.
- Building state of the art **toolkit** called **FastForward** for **model optimization** and **inferencing** solution based on docker containers, aiming to deliver the **fastest** inferencing speed that meets **hardware and system** requirements.
- Collaborated with various **Magnetic resonance(MR)** imaging modality development teams to identify performance improvement opportunities and integrate trained models. Using optimization tools, I was able to **reducing the inference speed** and memory requirement by **50%** on more than 3 occasions.
- Composed production-grade code to convert machine learning models into services and pipelines to be consumed at web-scale.
- Identified new problem areas and **researched** technical details to reproduce and build innovative solutions which are later consumed by Data Scientists.
- Championing for better code **collaboration** across various teams across the world, to consolidate and distribute the machine learning models and techniques to reduce over all product development time.

### Fugro USA Marine | Lafayette, LA

#### Innovation Engineer(Machine Learning) | 03/2018 - 12/2021

- Built applications in geospatial domain using **Computer Vision** algorithms like **object detection**, **instance** and **semantic segmentation** to reduce manual effort of mapping features on sea floor and segmenting sea floor.
- Successfully implemented applications using **TensorFlow**, **pytorch** and **mxnet** on **AWS** which were used in 6 projects within year.
- Detected more than **3 million** features and reducing project turn around time from **3 months** to **1 week** on multiple survey projects.
- Developed innovative ML inference pipelines on **AWS** using **Step functions**, **Batch Transforms**, **lambda**, and **sagemaker**.
- Experience with ML platforms like AWS **sagemaker**, **ground truth**, and **Microsoft databricks** for data labeling and training.
- Collaborated in building **CI/CD** workflows using **Jenkins**, **Terraform**, **Git**, and **Docker** containers.
- Experience in development, staging and production **model versioning** using **mlflow**.

### Tata Consultancy Services (TCS) | Mumbai, Maharashtra

#### Systems Engineer | 10/2013 - 06/2016

- Performed **financial data** analysis to design strategy against other **data management** tools and techniques, increased data management efficiency by 20%.
- Dashboard: Proposed and developed visualization dashboards for enriched client experience on web-based platform using **.Net** and **VB- Script**. Integrated to Excel as independent application.
- Leveraging expertise in data across various data stores like **SQL**, **DB2**, **Hive** and **Excel** for efficient requirement gathering, data mining, data integrity and predictive analytics to drive banking business.
- Writing test cases and data extraction to build efficient test planning.

## Skills

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Deep Learning, Computer Vision, Medical Domain, Geo Spatial Analytics, Jenkins, CI/CD, Financial Services

## Education

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University of North Carolina at Charlotte | Charlotte, NC  
Data Science And Business Analytics | 12/2018

Jawaharlal Nehru Technological University Kakinada | Kakinada, Andhra Pradesh  
Electronics And Communications Engineering | 05/2013