

EDUCATION

- **Worcester Polytechnic Institute** *Worcester, MA (USA)*
 - *MS in Robotics Engineering* *Aug 2023 – May 2025 (Exp)*
- **National Institute of Technology, Calicut** *Kerala, India*
 - *B.Tech Mechanical Engineering* *Jun.2015 – May.2019*

EXPERIENCE

- **Machine Learning Engineer - Tiger Analytics** *(Jan 2022 - Present), India*
 - Led a team of 3 ML Engineers to design an End-to-End retrainable MLOps pipeline on AWS
 - Led a team of 4 ML Engineers in orchestrating and automating the training and inference pipeline deployment following MLOps principles on GCP.
 - Worked as a part of the MLOps team to develop a Real-time Scalable and Automated Pipeline for Anomaly Detection in Authentication systems.
 - Led the development of a Hybrid IOT architecture for easier integration with sensors and Real life Edge Deployment of ML Models on Microcontrollers using Open Source SDK's and Tiny ML.
- **Freelance ML Engineer/Data Scientist** *(Aug 2021 - Jan 2022), India*
 - **DeepJudge - Aug 2021-Jan 2022:** Worked on developing multiple components for the Information extraction platform for the Semantic search component of a Legal AI product.
 - **Aays Analytics - Aug 2021- Jan 2022:** Analysed the data from a Retail Fashion Business client and built a pipeline for Automating Scheduling and managing inventory using ML Modelling.
 - **Applied Computing - Sep 2021- Nov 2021:** Developed an ML-based API that can help in Virtual KYC automation with the help of Cloud Text extraction APIs, OpenCV, and NLP libraries to identify keywords.
- **Machine Learning Engineer II - New Space Research Technologies** *(Feb 2021 - Jul 2021), India*
 - Developed a Deep learning based Targeting and Navigation platform using Deep learning based feature matching algorithms such as Superpoint, LoFTR, SuperGlue.
 - Led the exploration of shifting the current inference platform which is Raspberry Pi to CUDA based platforms to speed up the platform inference
- **Machine Learning Engineer - Quantiphi Analytics Solutions** *(May 2019 - Feb 2021), India*
 - Worked in a team to develop firms' capability in Hybrid deployment scenarios, especially edge/cloud inference using Nvidia SDK such as Deep Stream, TLT, Clara, TFlite, and OpenVino.
 - This project involves developing a scalable script to deploy OpenGPT-2/Roberta/Longformer in a Kubeflow-based pipeline and benchmark the model performance.
 - CV pipeline for Re-identification and security. This project involves working on deep learning concepts such as Object Detection, Object Tracking, Person Reidentification, and Image Search using FAISS and Elastic Search.
 - CV Pipeline for Safety in Parks, Resorts, etc. This project involves working on DL concepts such as Object Detection, Tracking, and Pose Estimation and deploying them using the Triton Platform.
- **Machine Learning Intern - Storilabs System Technologies** *(Jun 2018-Oct 2018), India*
 - Computer Vision Pipeline for real-time Object Search CV Pipeline for Real-time object search is for identifying and live tracking of objects across multiple places and also tracking the history.

PUBLICATIONS

- Uday Girish, M et.al. "RIGGU: A Semi-humanoid Robot Platform for Speech and Image Recognition" in Intelligent Systems, Technologies and Applications, 2020 [📄 Paper](#) [📺 Video](#).

PROGRAMMING SKILLS

- **Languages/Technologies:** Python, C, C++, SQL, HTML, R, Cloud Computing(GCP, AWS,Azure), CV, NLP, RL, Robotics, Edge Computing, Speech Tech, Network Security, Quantum Computing, Databases, Microservices
- **Frameworks/Softwares:** Tensorflow, OpenCV, Scikit-Learn, Pytorch, CUDA, cuDNN, ROS, Deepstream, Matlab, COMSOL,SolidWorks, Ansys,FluidSim, CREO, MasterCam, Proteus, Unity, Blender, Octave, Arduino, Edge Devices, GitHub, Jenkins, ARM, Gazebo, OpenAI Gym