Contact

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www.linkedin.com/in/gksriharsha (LinkedIn)
gksriharsha.medium.com/ (Blog)
gksriharsha.github.io/AboutMe/ (Portfolio)

Top Skills

Pattern Recognition
Statistical Modeling
R (Programming Language)

Languages

English (Native or Bilingual)
Telugu (Native or Bilingual)
Hindi (Professional Working)

Certifications

The Open Group Certified: TOGAF® 9 Foundation
TensorFlow Developer Certificate

Publications

Ensemble Methods for Scientific Data - A comparative study
Challenges in Crop Selection using Machine Learning
Smart Traffic Control System At Toll Booths
Analysis to predict Coronary Thrombosis using Machine Learning
Normalized Geometric Index: A scale for classifier selection

Krishna Sriharsha Gundu

Sr. AI Engineer @ ASU | AWS, TOGAF, TensorFlow
Tempe, Arizona, United States

Summary

As a Sr. AI Engineer at Technology at Arizona State University, I develop machine learning solutions to identify and track people using point cloud data from Ouster LIDAR sensors. This privacy-centric solution, deployed to an edge computing unit - Jetson Xavier. I have a Master's degree in Computer Science from ASU, with a focus on deep learning, and certifications such as AWS Machine Learning Specialty and TensorFlow Certified Developer.

With a strong background in electronics and communication engineering, I also have a passion for creating advanced IoT-based solutions. I have worked on projects at the University of Saskatchewan and the Indian Institute of Technology Mandi, where I designed network architectures, built cost-effective networks of IoT devices, and programmed devices for remote monitoring and data collection. I have also published research papers on topics like coronary thrombosis prediction, face mask detection, and ensemble methods for scientific data. I am committed to staying up-to-date with the latest industry advancements and leveraging my skills to create value for my team and organization.

Experience

Technology at Arizona State University
Sr. AI development engineer
March 2023 - Present (1 year 2 months)
Tempe, Arizona, United States

University Technology Office at Arizona State University
IoT & ML Developer
August 2021 - December 2022 (1 year 5 months)
Tempe, Arizona, United States

Developing machine learning solutions to identify and track people using point cloud data from Ouster LIDAR sensors. This solution when deployed to an

edge computing unit - Jetson Xavier is fully privacy-centric in nature. The solution works best for a 10m x 10m region around the LIDAR.

Arizona State University
Graduate Services Assistant for Statistical Machine Learning
August 2021 - October 2021 (3 months)
Tempe, Arizona, United States

Mentored 300 students through Coursera during Fall semester (Session A) 2021.
Conducted weekly office hours to improve the conceptual understanding of the topics in the syllabus.
Actively worked with a group of 4 other mentors to better aide the teaching process.

Cognizant
Programmer Analyst
June 2019 - December 2020 (1 year 7 months)

• Performed Exploratory Data Analysis to draw insights into the text dataset.
• Analyzed the impact of a word during the training process using LIME and SHAP packages.
• Finetuned deep learning model (BERT) model with text dataset to attain an accuracy of 85 % for text
classification.
• Developed an automation script to generate weekly usage reports in the required Powerpoint format for directly presenting them to the required leadership saving 8 hours of manual effort.
• Developed Spring boot applications to store up to make the deployment process easier by performing mandatory checks on database and stored procedures.

University of Saskatchewan
Mitacs Globalink Research Intern
May 2018 - July 2018 (3 months)
Saskatchewan, Canada

• Created a network architecture to transmit the sensor data from a remote location to the university accounting for the poor network quality and connection disconnections
• Programmed Libelium P&S! devices to measure the water properties and configured the 4G radio to send this to the lab for detailed analysis

• Implemented an error correction algorithm to limit the measured value to 10% of the ground truth value.
• Used Meshlium node gateway to update the source code of the nodes using FTP protocol to change the node behavior remotely.

Indian Institute of Technology, Mandi
Internet of Things Research Intern
June 2017 - July 2017 (2 months)
Mandi Area, India

• Built a cost-effective network of IoT devices to replicate the functionality of some of the costlier alternatives namely, Wisense nodes. Thereby bringing the cost down by 80%
• Used Raspberry Pi and Arduino boards on MQTT protocol to build this project with 7 channels, one for each node on the campus.
• Connected all the nodes using RF boards and Zigbee to perform weather monitoring at 10-minute intervals.

Education

Arizona State University
Master's degree, Computer Science · (2021 - 2023)

Vellore Institute of Technology
Bachelor’s Degree, Electrical, Electronics and Communications Engineering · (2015 - 2019)

The Hyderabad Public School, Begumpet
Secondary High School, Science Stream · (2013 - 2015)

The Hyderabad Public School, Begumpet
High School, Electrical and Electronics Engineering · (2008 - 2013)