

Harsha Lokesh

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EDUCATION

- Vellore institute of technology, Vellore** Vellore, India
• *Bachelor of Technology - Computer science engineering with specialization IoT; 2019 - present*
Courses: Operating Systems, Data Structures and algorithm, DBMS, Network and communications, Principles of cloud computing, Embedded System Architecture and Design, DBMS, etc.
- National public school, Rajajinagar** Bangalore, India
• *High school education - CBSE; Grade: 93% 2017 - 2019*
- National public school, Rajajinagar** Bangalore, India
• *Primary and middle school education - CBSE; Grade: 9.40 2005 - 2017*

EXPERIENCE

- Calligo technologies** Hybrid
• *Software Intern June 2022 - Ongoing*
 - **Machine learning prototyping:** Research and development of software to convert low resolution images(LDR) to High resolution images(HDR) using GANs and machine learning analysis.
- Feynn labs** Remote
• *Machine Learning and Data Analysis Intern Dec 2021 - Jan 2022*
 - **AI Product/Service Prototyping:** AI in stock market analysis and prediction, Worked with teams on Market segmentation and visualization of city real estate market
- Engineers Cradle** Remote
• *Design Intern Aug 2021 - Oct 2021*
 - **UX/UI Intern:** Responsible in designing graphic user interface elements, like menus, tabs and widgets and making wireframes using FIGMA.

PROJECTS

- **Hardware autonomous vehicle simulation:** Research oriented, open source hardware vehicle simulation with multiple sensors to show the working of autonomous vehicles and remote control monitoring with application. Tech: Python, NodeJS, Arduino, Raspberry.
- **Machine learning models:** AI models on smart transportation for collision avoidance and collision detection to reduce vehicle accidents and improve safety with smart vehicle sensor data. Tech: Python, ML frameworks.
- **Web Development and coding:** Worked with teams to ideate, create, maintain and update code. Tech: C, C++, Java, Python, PHP, SQL, HTML, CSS, JavaScript, etc.
- **Project papers:** Vehicle Collision Avoidance System using ML for IoV's with iFogSim Topology, Intrusion detection system analysis with deep learning techniques, Penetration of website with various attacks to test security, etc.

PUBLICATIONS

- **Research paper (Working in progress):** "Water quality monitoring IoT device with machine learning analysis to predict algae bloom" Ongoing paper in the process of publication with Springer journal, work is based on the need for smart IoT solution for water quality monitoring and analyse of live data with Machine learning. Tech: Python, Arduino, scikit, keras.

CERTIFICATIONS

- Bayesian Statistics: From Concept to Data Analysis - Apr, 2020
- Digital Systems: From Logic Gates to Processors - May, 2020
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning - March 2022

LEADERSHIP EXPERIENCE

- I Love to Care charitable trust foundation** Bangalore, India
• *Carried out social well-fair services such as teaching underprivileged children, COVID care, etc. Jan 2019- Present*
- Member of field Hockey team** Bangalore/Vellore, India
• *Headed the school hockey team and teammate of college team. Jan 2015 - Present*

SKILLS SUMMARY

- **Technical:** Python, C, C++, JAVA, SQL, Javascript, Linux, Web, Windows, FIGMA, MATLAB, Arduino, Raspberry, AWS, Scikit-learn, TensorFlow, Keras, NodeJS, MS-Office applications.
- **Languages:** English, Kannada, Hindi.
- **Interest:** Hockey, Cricket, Tennis, Formula-1, Hiking.