

HARI SUDARSAN

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EDUCATION

University of Glasgow (Glasgow, UK) <i>MSc Robotics and Artificial intelligence</i> <i>Msc With merit</i>	<i>Sept 2022 - Sept 2023</i>
College of Engineering, Trivandrum (Kerala, India) <i>Bachelor of Technology in Applied Electronics and Instrumentation Engineering</i> <i>CGPA: 8.65/10.0</i>	<i>Aug 2018 - July 2022</i>

TECHNICAL SKILLS

Programming:	Python, Dart, MATLAB ,SQL
Tools & Frameworks:	AWS, Tensorflow,PyTorch,Langchain, Pandas, Numpy,Matplotlib Seaborn, OpenCV

PROFESSIONAL EXPERIENCE

Ignitus(Pennsylvania) <i>Computer vision intern</i> -Worked on an eye gaze tracker to detect the most viewed areas on a computer screen as a tool for UI/UX optimization. -On this, my part of work was to make a research on various possible algorithms for the work.	<i>October 2021(2 months)</i>
Sparks Foundation(Singapore) <i>Android development intern</i> - As part of their GRIP program I was selected as the android developer intern. Integrated the application with social media for login using flutter.	<i>October 2020(1 Month)</i>

PROJECTS

Influence of news and tweets on stock prices:A comparative study -Successfully completed my master's thesis with the primary objective of predicting stock market movements through the analysis of news articles and tweets. -Conducted a comprehensive comparative study by developing separate models to assess the impact of news and tweets on stock market dynamics. -Evaluated these models in comparison with established contextualized word embedding models, including BERT, RoBERTa, a hybrid GRU, and a modified RoBERTa model. Notably, achieved superior results in predicting stock market behavior using tweet data compared to news articles.	<i>August 2023</i>
RoboSoccer - Created a advanced 2D simulation and basic 3D simulation for robots playing soccer. - Used MATLAB for implementing 2D representation and WEBOTS for 3D. - Developed advanced behavioural algorithm for the players and tested it using simulation.	<i>March 2023</i>
Identification of different types of cell nuclei in cancer samples - Collected a database from kaggle and made 2 different convnet models to make a comparitative study. - Made a transfer learning model and a custom convolutional network to obtain a better result. Used pytorch to develop this model and got a test accuracy of 97%.	<i>March 2023</i>
Multiclass object classification for automatic retail checkout - Aim is to develop a model for an automated retail checkout system. It is one of the challenges in AI city challenge 2022 by CVPR. - In the first phase developed two models using mobilenet and efficientnet using transfer learning. - For getting a better result developed a custom convolutional model and got an accuracy of 94%.	<i>July 2022</i>

Classification of Indian percussion instruments

December 2020

- A project for the classification of different Indian percussion instruments using sound classifier.
- For the development of this project using librosa(package for extracting sound features),extracted MFCC and other sound features.
- Finally using these features we developed a model on CNN mechanism using keras and obtained result with 73% accuracy.

EXTRA-CURRICULAR ACTIVITIES & ACHIEVEMENTS

Program coordinator-Dhrishti CET

2022

-It is one of the biggest technical festivals in India. I played a key role in organising cultural events and conducting various tech-related talk sessions.

One Day Blockbusters

2018

-Co-founded a cultural community.Our main tasks involve producing articles and videos for social media. We used expert advertising and photographic services.

National Service Scheme

2015-2017

-It is a government-sector public service program, and, as part of this, I actively participated in various social service activities.

MOOC Certifications

Google IT support specialisation(Google) — Technical support, Networking, OS, IT security

AI For everyone(deeplearning.ai)

SQL Masterclass:SQL for Data Analysis

30 days of google cloud and ML(Google Cloud)