

# Gokul G Menon

 Gokul-GMenon |  gokul-g-memon |  gokulgovindmenon@gmail.com

## EDUCATION

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2020 - present    BTech in Computer Science and Engineering at **College Of Engineering Trivandrum**  
(CGPA: 9.30/10.0)  
2019                Class 12th CBSE (95% PCM)

## WORK EXPERIENCE

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Computer Vision Intern at Quetzal Robotics July 2022 - Sept 2022

Trained object detection models on YOLOv5, YOLOv3 and worked on implementing such models into a collective package that can track objects.  
(Deep Learning, TensorFlow, YOLO, OpenCV)

Intern at Wizard flair PVT LTD, Kochi, Kerala July 2021 - Oct-2021

Worked on generating posters on demand for businesses using minimal input data, internal website for sorting internal tools in one place using Django, caption generation for the posters generated using user info (Python, Django, MySQL, HTML, CSS, Bootstrap)

## STANDOUT PROJECTS

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**Publication on Automatic Recognition of Continuous Malayalam Speech using Pretrained Multilingual Transformers accepted for ICISCoIS 2023 conference** [Click here for the paper](#)  
[Click here for viewing XLS-R work](#) and [here for the Ken-LM Language Model work](#)

Paper on Malayalam ASR accepted by ICISCoIS 2023 conference (Awaiting publication on IEEE Explore).

**Fine tuned Whisper Language Model for the Malayalam language** [Click here for the project](#)

Fine tuned the Facebook Whisper speech recognition model on the Malayalam language and published on hugging face

**XLS-R model for Malayalam language used to build translator API**

[Click here for the project](#)

The XLS-R model fine tuned on the Ken-LM language model was used to build a Malayalam to English language audio translator as a Django API

**Used the Wav2Vec2 model to build an architecture for a model that does Sentiment Analysis for English Movie Reviews**

[Click here for the project](#)

The Wav2Vec2 model architecture was modified to allow for training on English common voice dataset and then further layers added to allow for sentiment analysis of English movie reviews

**System for converting American Sign Language to Audio** [Click here for the project](#)

System to convert American sign language to audio to enable efficient communication with sign language. The system was built using TensorFlow (Transfer Learning for detecting signs) and OpenCV (for hand detection).

**Gas Cylinder detection using YOLOv5** [Click here for the project](#)

Custom trained the popular YOLOv5 model to detect gas cylinders moving through the supply chain and modified the detect.py file in to obtain information about each detection in the video/image file.

## Scenery image classifier using PyTorch

[Click here for the project](#)

Made use of a CNN model in PyTorch to classify various scenic locations using the Intel Image classification dataset from kaggle.

## ACHIEVEMENTS

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Campus Lead at TinkerHub CET

Chairperson of one of the biggest technical club of College Of Engineering Trivandrum for the Execom 2022-23.

TinkerHub Foundation Learning Facilitator for Machine Learning

Sole learning facilitator for Machine Learning for various events of TinkerHub Foundation all across Kerala during 2022-23

Top 10 in 180+ teams, Encode-IIT Guwahati

Built a web app aimed at sustainable transportation that automatically connects people together who is moving in the same route at the same time and hence book a cab together.

Tech Lead at TinkerHub CET

The tech lead at one of the biggest technical club of College Of Engineering Trivandrum for the execom of 2021-22

Web Master at IEDC CET

Lead the web development team of IEDC CET during the Execom of 2022-23