

# Portfolio

## *Shivani Sri*

B.E - Computer Science, Final Year Student @ PSG College of Technology

# About Me

My name is Shivani, and I am a final-year student pursuing computer science engineering from Coimbatore.

From a young age, I have been fascinated by the intersection of technology and innovation. This is what drew me towards the field of computer science engineering. My interest in designing, coding, and developing software started in high school, and I have been honing these skills ever since.

I am particularly passionate about emerging technologies such as IoT, AI, and ML, which have the potential to revolutionise the way we live, work, and interact with the world around us. I am always on the lookout for opportunities to work on projects that involve these cutting-edge technologies, and in UI/UX Design. Currently, seeking an internship.

As a computer science engineering student, I have had the opportunity to work on several projects that have helped me gain a deeper understanding of software development and its applications. I believe that technology has the power to make a positive impact on society, and I am eager to be a part of this change.

# Academic *Details*

## Education

B.E Computer Science &  
Engineering, 2020 - 2024  
PSG College of Technology  
**CGPA - 9.24** upto Semester 6

High School, 2018 - 2020  
CS Academy  
**Marks (%) - 91.8%**

## Skills

C, C++, Python, Java, JavaScript,  
HTML & CSS, React, MySQL,  
Machine Learning & AI, IoT,  
Tools - Figma,  
Visual Studio Code, Git

## Clubs & Community

Designer @ Finverse  
Member @ Global Leader's Forum  
Writing Correspondent @ The Bridge  
Technical Team @ Animal Welfare  
Club (In PSG College of Technology)

# Other *Achievements*

## Samsung PRISM

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Part of a Samsung PRISM worklet, as a virtual internship for a period of eight months. Nominated for an award of excellence.

## Pentagon

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Placed second, in a 5 week coding contest and received a cash prize.

## National University of Singapore

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Wrote an essay on Driverless Cars and won Best Essay.

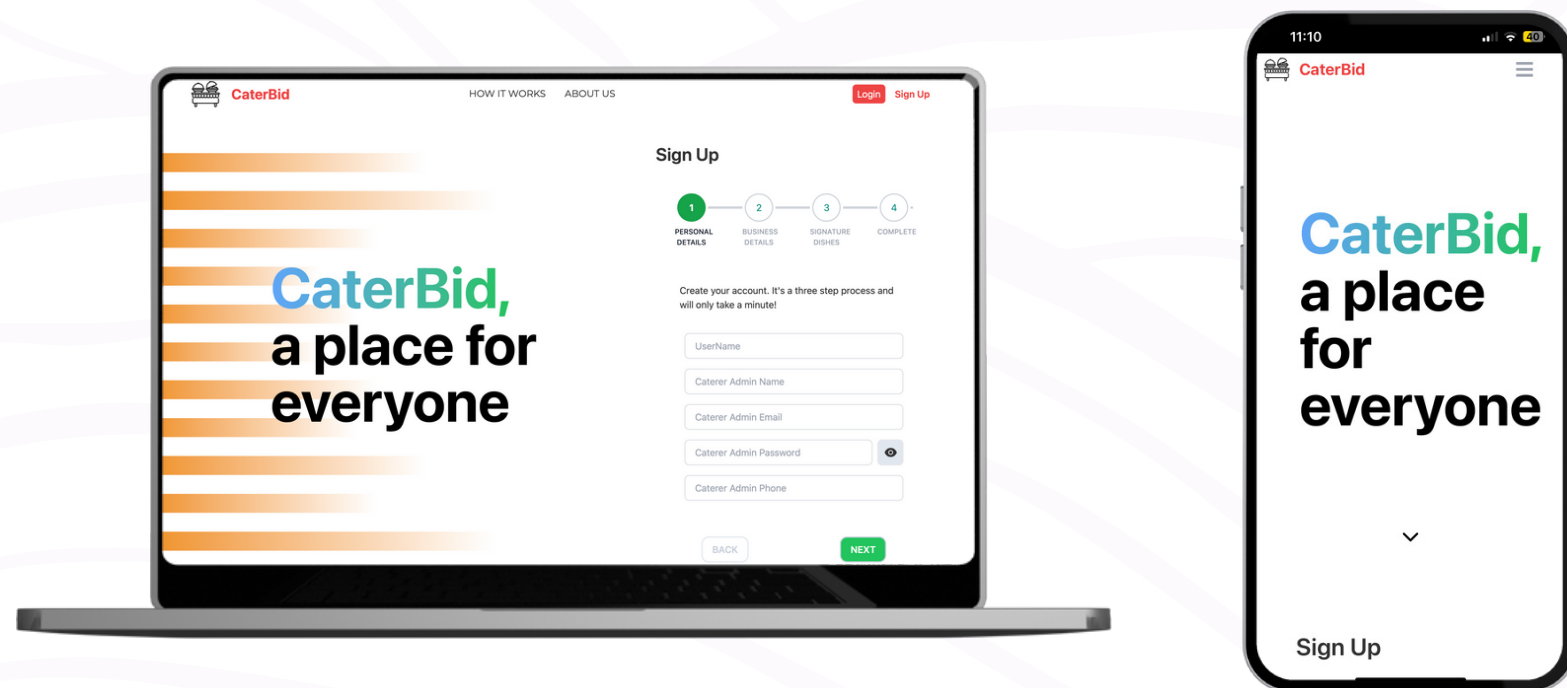
# The *Projects*

I have had the opportunity to work on a variety of projects that have helped me hone my skills and learn new ones.

Some of the Technical Skills I have learnt through my projects are

- React JS, React Native
- Machine Learning & Deep Learning
- Figma Prototypes
- Internet of Things
- OpenCV and Computer Vision
- Software Testing
- Software Package Development
- Software Project Management
- Object Oriented Analysis and Design
- Database Management
- Cloud Computing & Services

# CaterBid



A platform that allows users to post catering orders for parties and events and receive bids to choose the best one from the catering companies.

It has always been a struggle finding the right caterer in today's world where there are so many good, and capable companies available, but to choose from one of them, hoping they're the right fit for us is a difficult choice. Inspired & motivated by this struggle which could very easily be solved by having a unified and standard platform for caterers to showcase their work, CaterBid was born. Here, events are auctioned off to the best bids from caterers who go all out to prove that they indeed are the best fit for each event a user hosts.

It is implemented using the MERN Stack. It has an expressive and responsive Interface. The color scheme mainly follows the color Orange, as it is often associated with food brands and delivery companies. It is said that the color is a stimulant for appetite.

Experience CaterBid: <https://caterbid.netlify.app>



# SlidExt



A Command Line Tool to help Students go through lecture videos fast as possible by extracting the slides present in it.

One of the main problems I've personally faced as I raced against time to study for my exams, is that I couldn't read through something for a quick revision just a few hours before the exam. One of this generation's studying trends is the usage of Youtube lectures to Study for an exam. It is the easiest, fastest and best way to learn for an exam. However, they're videos. Having slides, or a pdf would take this study method's effectiveness up a notch. And, that's how SlidExt was created. Just a few simple commands, to extract our very own slides for revision, in seconds.

This is a Software Package, and it can be used using the command line.

# Working *with* *Samsung* for *PRISM*

Samsung PRISM is a virtual internship conducted by Samsung with its partner universities. Students are recruited to be a part of it through a test conducted by them, and allotted to work for different projects or worklets.

Being a part of this worklet has directly exposed me to the industry I would one day step out into. I have had the chance to interact with Industry mentors and work on some of the most amazing technology that this industry has built. This is an opportunity I would always be grateful for.

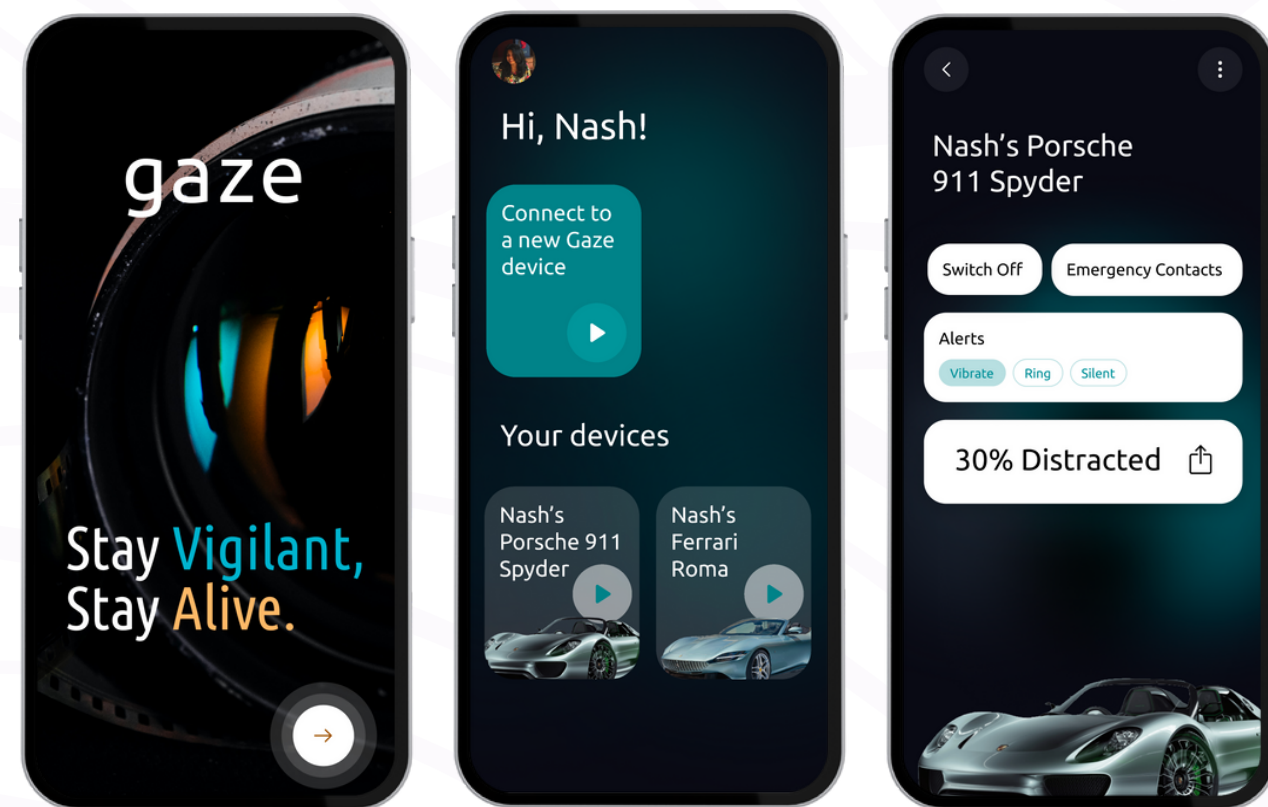
I have implemented various machine learning and deep learning algorithms, for my worklet. Some are VGG16, RCNN, SSD, YoloV5, YoloV8, etc. I have also created android applications for the same, and deployed machine learning on the edge.

**Certificate:**

<https://www.samsungprism.com/Profile/Document/3OD189PSG22293.pdf>



# Gaze

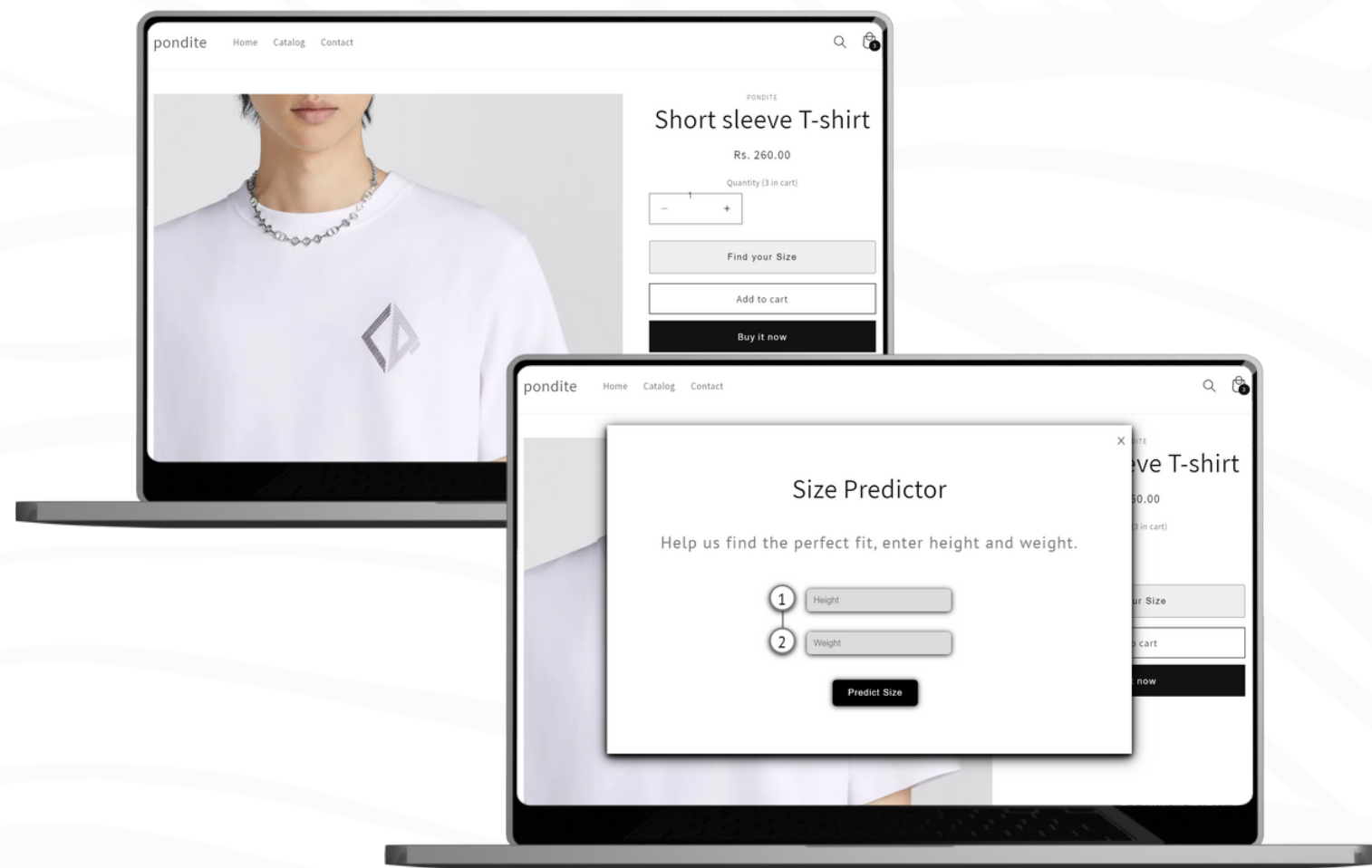


Gaze is an IoT product prototype. One of the most common cause of road accidents happen to be driver distraction. They're on the phone, they're sleepy, they're reaching back to get something, so many causes of distraction. Gaze uses deep learning mdoels to identify when a driver is distracted and alerts him to get his attention back on the road.

From a business point of view, this could be sold to users for personal use or to monitor fleets. Stats could offer better insights after data processing. And also, partnerships can be made with insurance companies to encourage more drivers to be cautious on the roads.

The prototype is made using Arduino and OV7670. A deep learning model has been trained using the State Farm Distracted Driver dataset. Currently, this runs by connecting it to a computer for Wifi to access the model hosted on Google Cloud. Potential improvements involve using ESP32 to directly connect to Wifi and send or receive data.

# Clothes *Size* *Predictor with* *BlueTyga*



Online shopping has become popular nowadays due to its convenience, as consumers can easily shop from anywhere with an internet connection.

Some of the issues that brands face include the return of a product because it does not fit properly or is the wrong size as different brands have different charts and standards, and the cost involved in handling returns.

According to industry estimates, the average cost of processing a return can cost fashion retailers as much as 21% of a product's order value making it an important issue for retailers to address.

This is a real industry problem that was obtained from **BlueTyga**, and an ML-based size prediction system that involves training a model on data about product sizes and customer measurements to predict the most likely size that a customer will need was proposed and created.

The model used is decision trees and random forest, and the dataset was manually collected by taking measurements of people. After the model was trained, it was integrated into Shopify as an app. Shopify is a popular e-commerce platform and integrating our predictor makes it easier for brands to add it as a widget in their websites, so front-end had to be developed. The model is hosted on a cloud and accessed through the internet.

# Contact *Me*

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Resumé

<https://github.com/shxvani/resume>