

**FR. C. RODRIGUES INSTITUTE OF TECHNOLOGY, VASHI**

# Project Management

# Mentors

**Shreyas Labhsetwar**

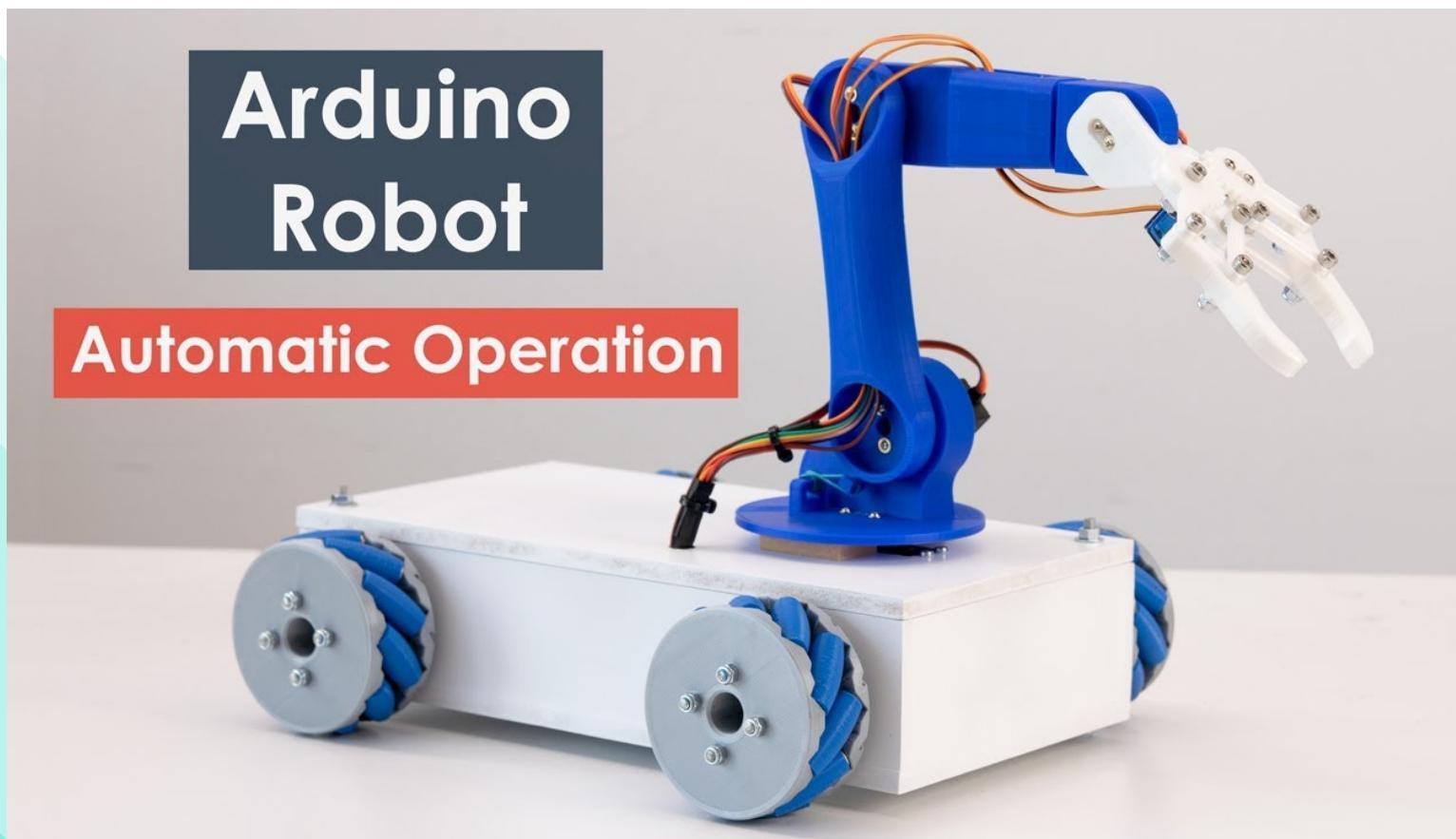
**Soumya Haridas**



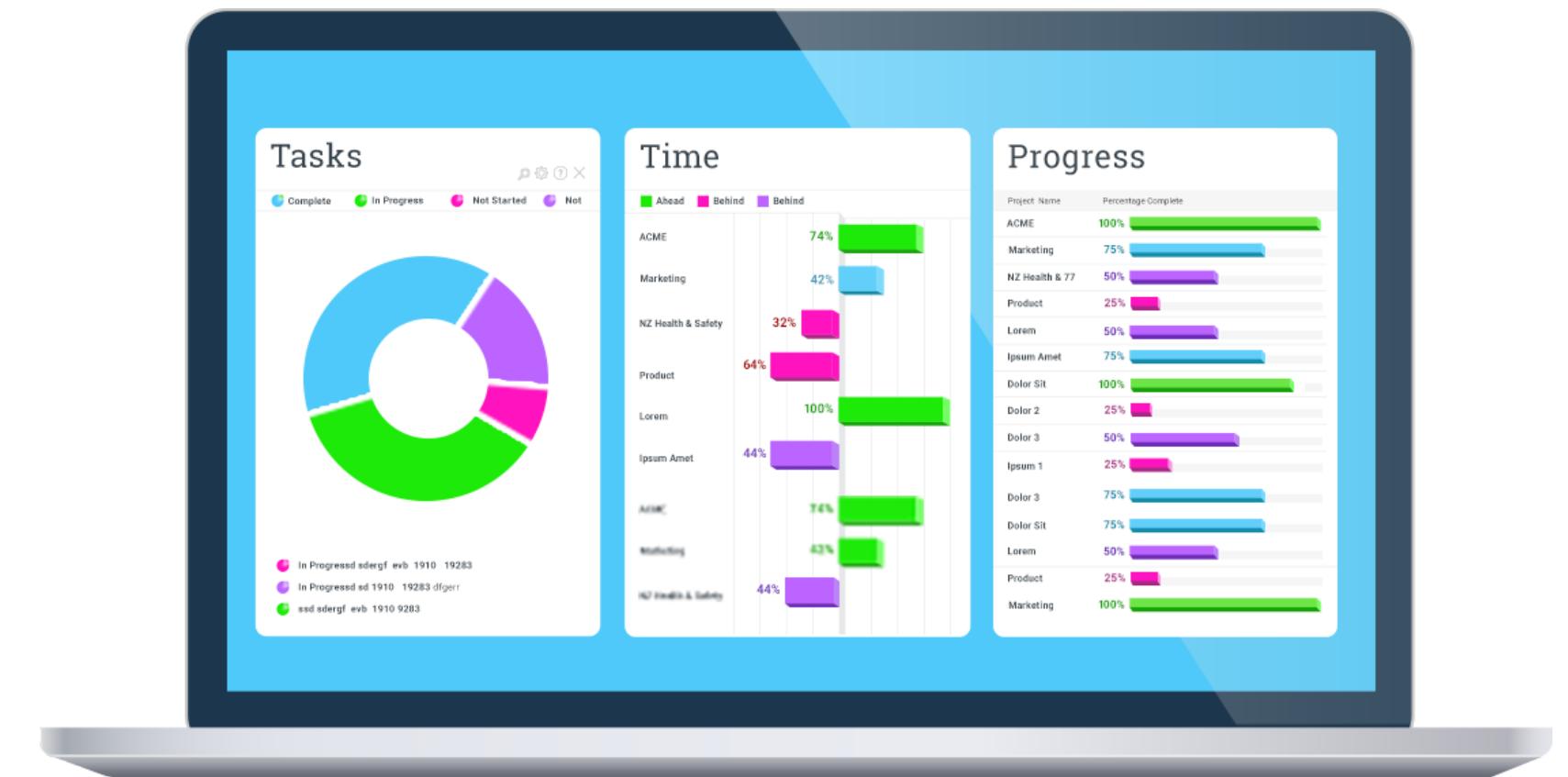
**Computer Engineering - 2021**

# CLASSIFICATION OF PROJECTS

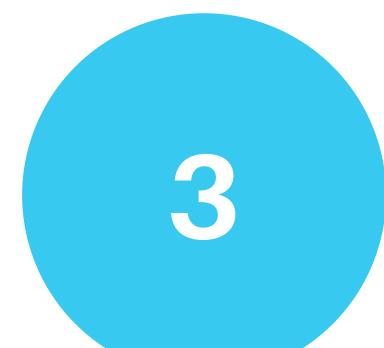
## HARDWARE PROJECTS



## SOFTWARE PROJECTS



# HARDWARE PROJECTS



Arduino

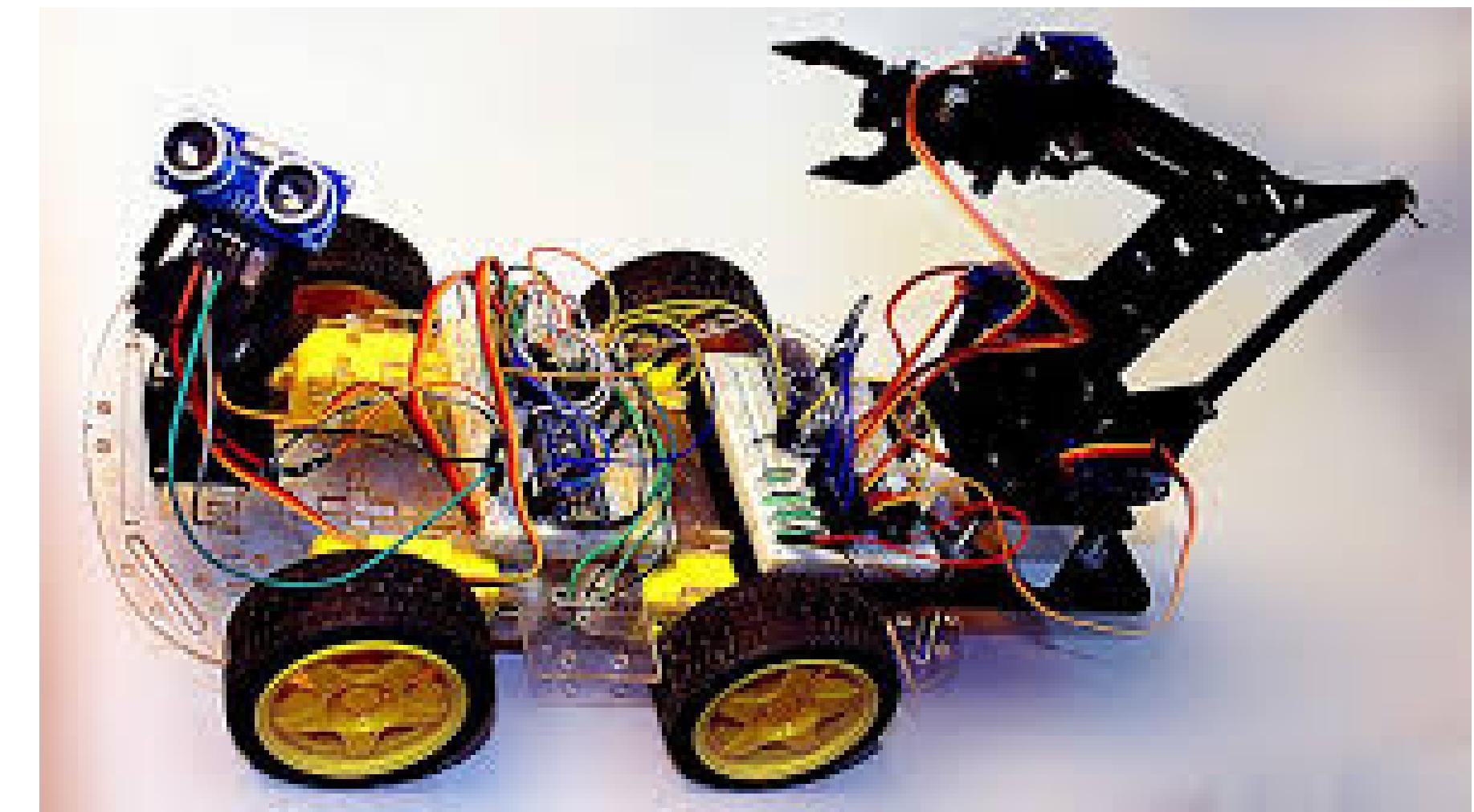
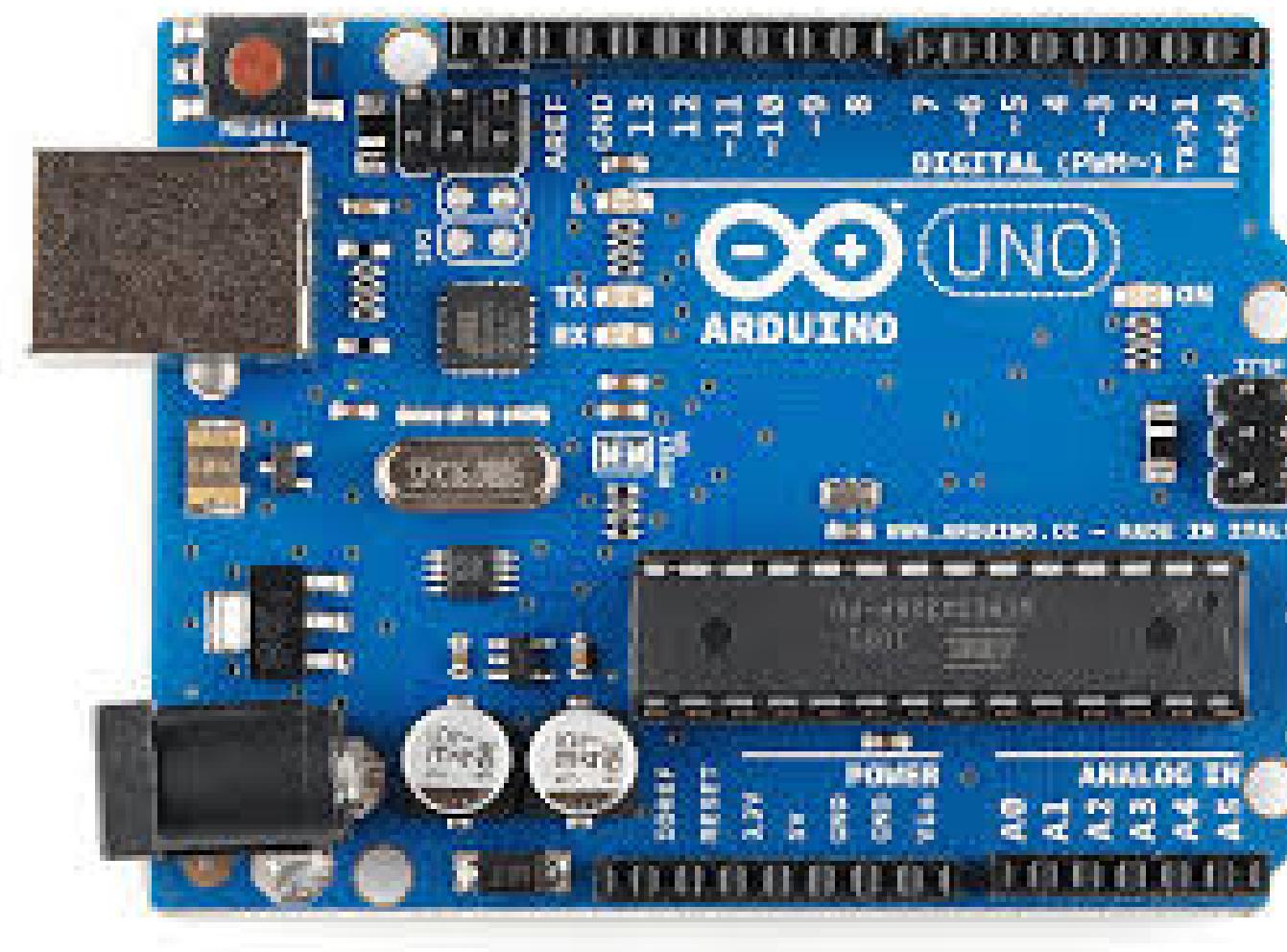
Raspberry Pi

IoT

FPGA

Integration systems

# ARDUINO



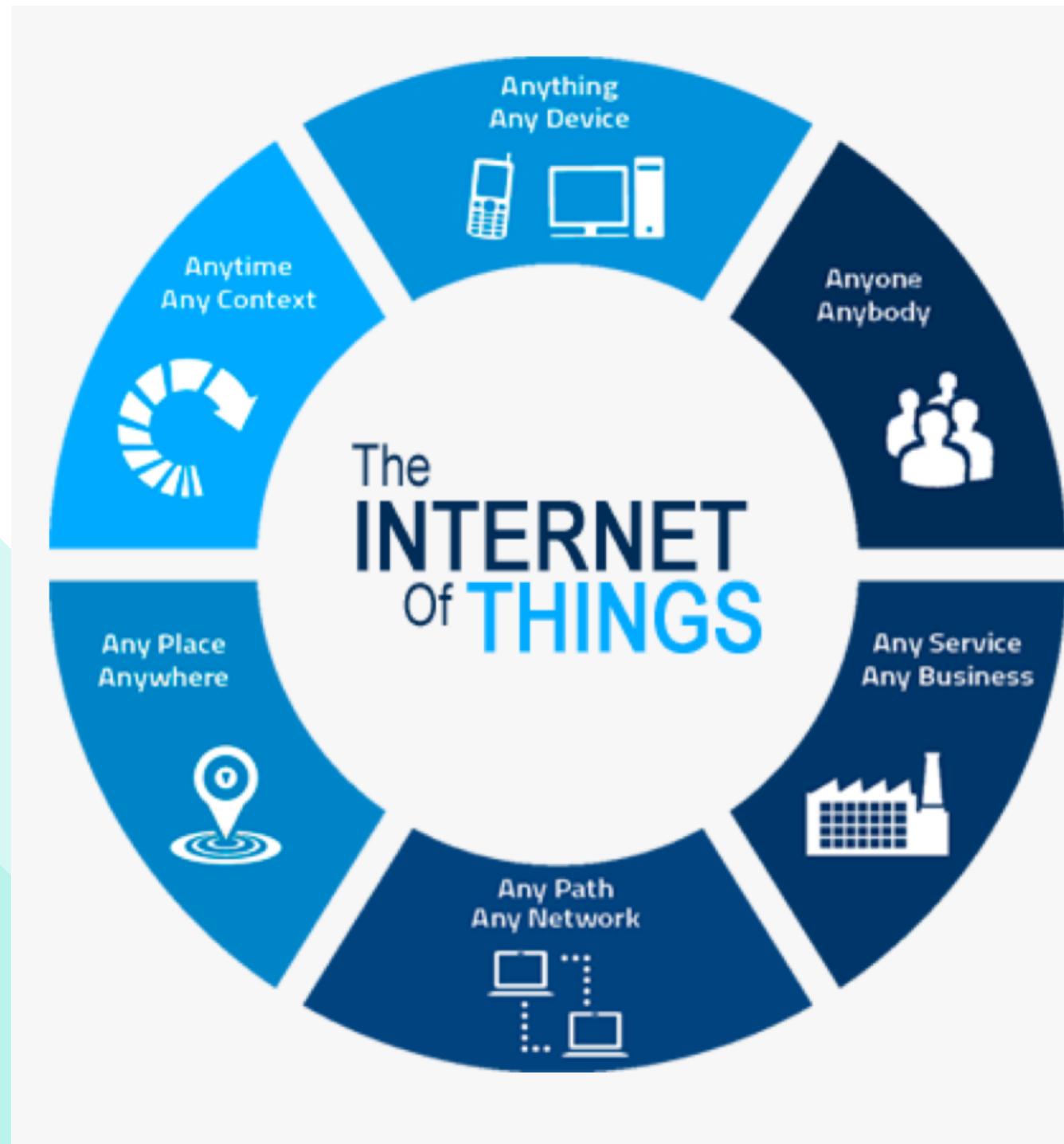
# RASPBERRY PI

<https://projects.raspberrypi.org/en/pathways/getting-started-with-raspberry-pi>

1. QR Code Scanner using Raspberry Pi and OpenCV
2. Speaking Alarm Clock
3. Raspberry Pi Gaming Console using RetroPie
4. Crowd Size Estimation

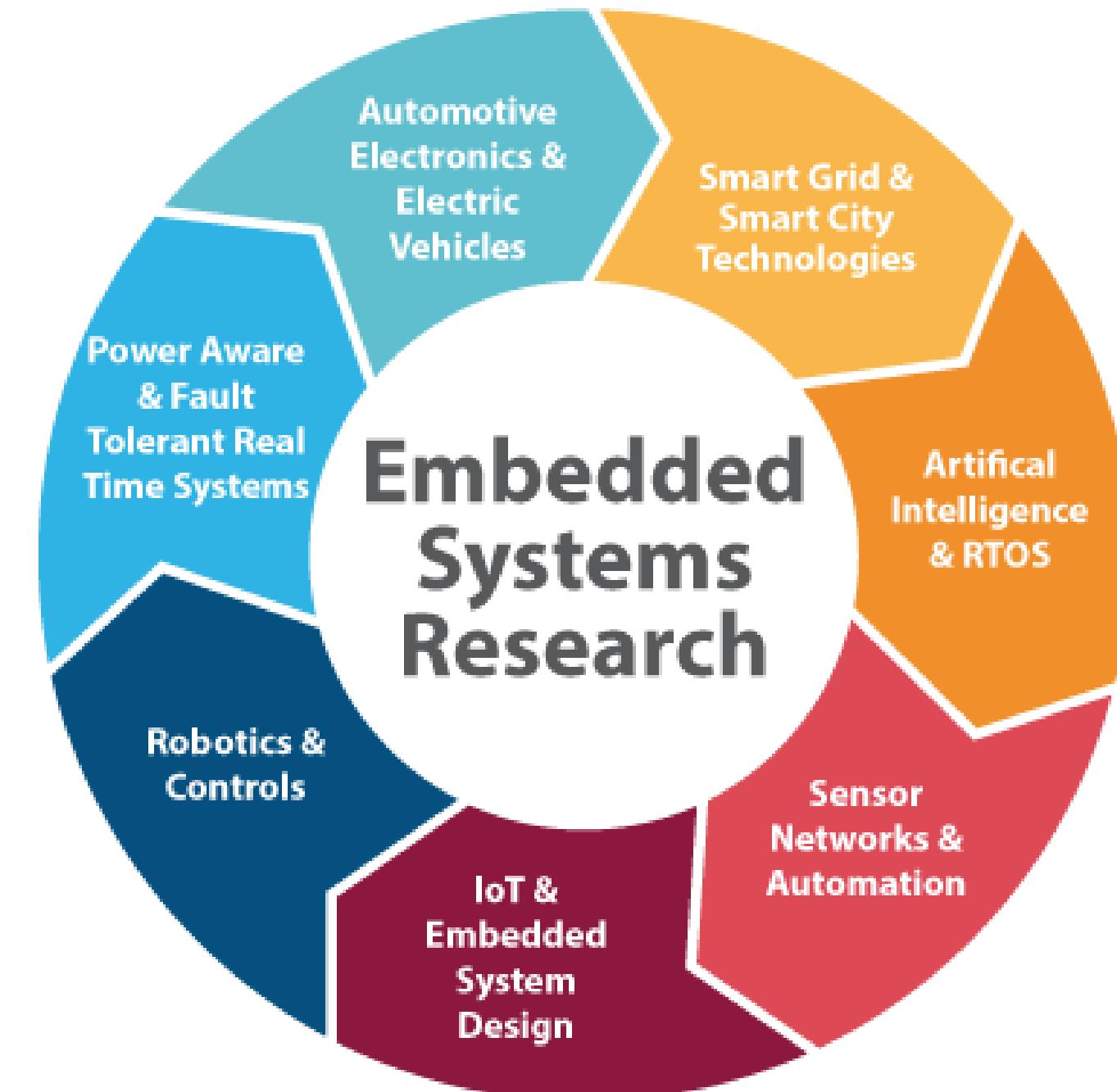


# IoT : Internet of Things



1. Touch-Based Home Automation System
2. IoT Based Air Pollution Monitoring System
3. Smart Parking System
4. IoT Based Health Monitoring System
5. Gas Pipe Leakage Detector Robot

# EMBEDDED SYSTEMS : FPGA

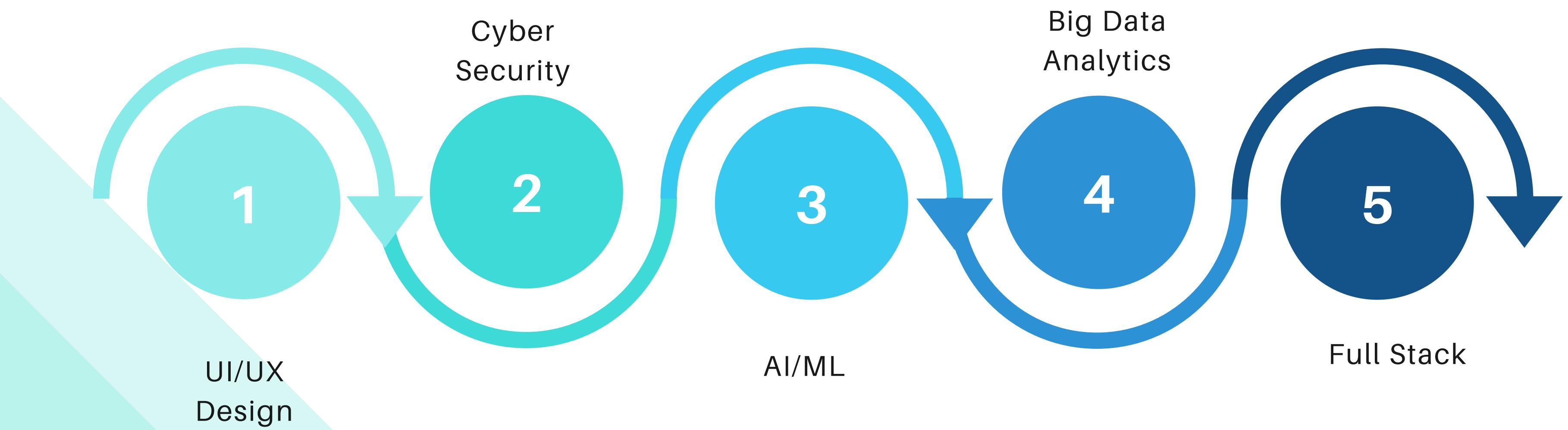


# Integration Systems



Self Driving Cars

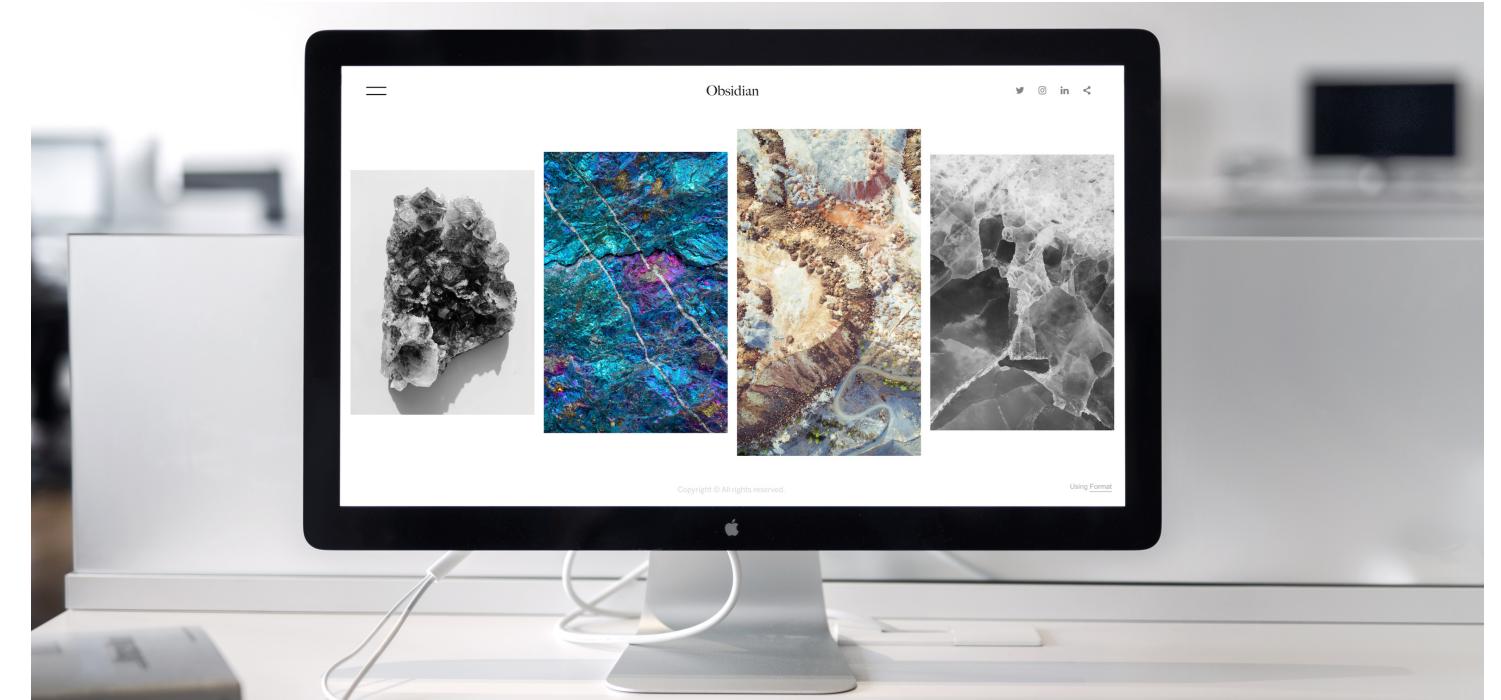
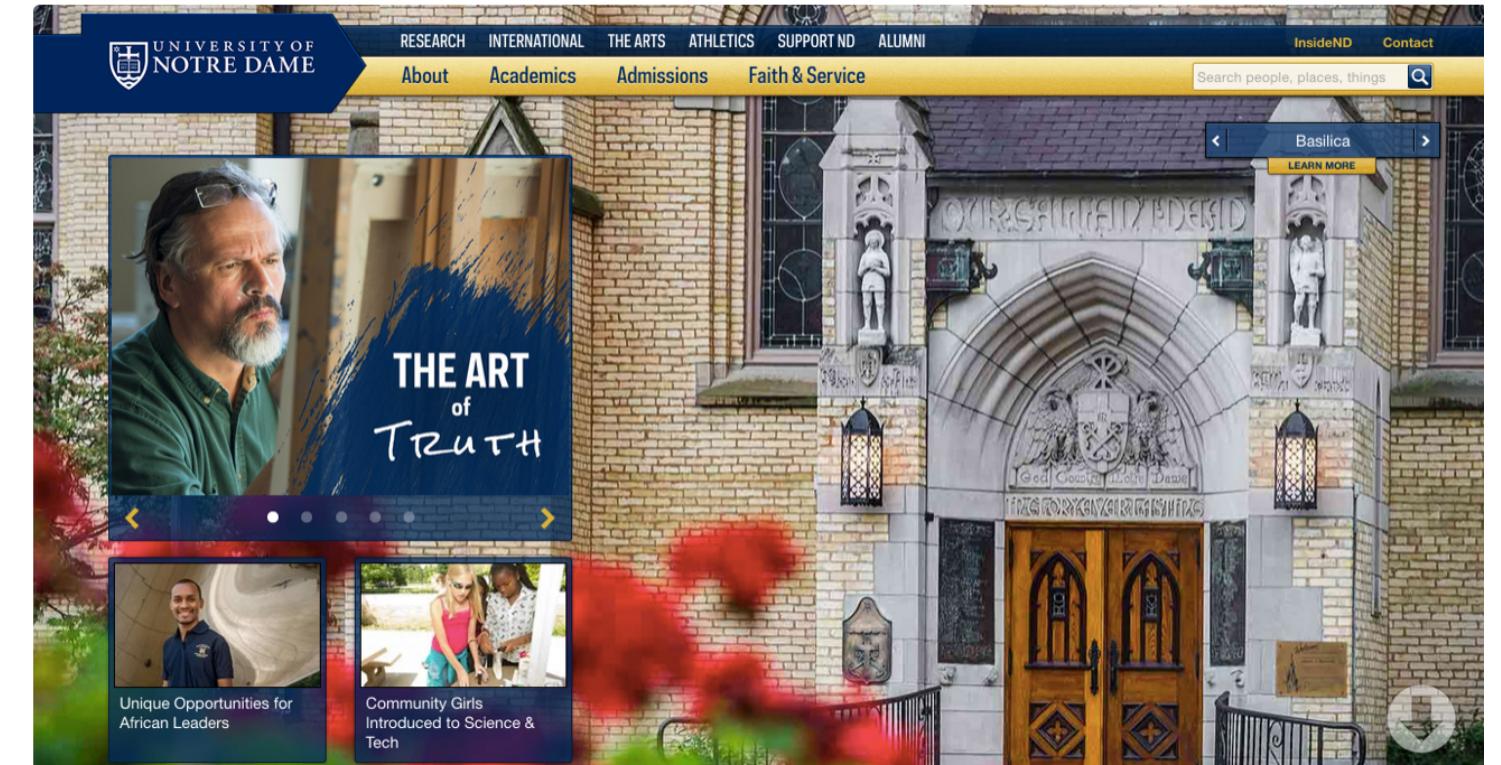
# SOFTWARE PROJECTS



# SOFTWARE PROJECTS

## Web Development

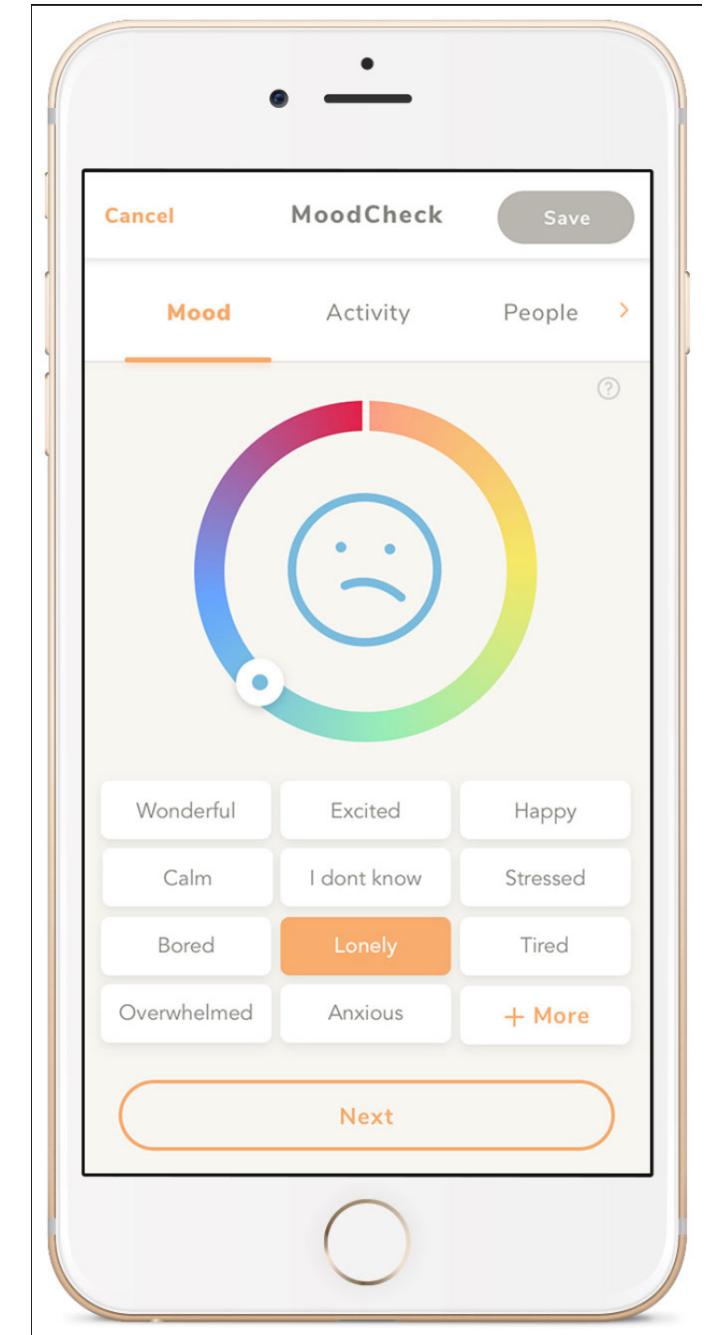
1. College Website
2. COVID Tracker
3. Personalised LinkedIn
4. Personalised Whatsapp



# SOFTWARE PROJECTS

## Android Development

1. Mental Health Monitoring App
2. COVID Tracker
3. COVID Contact Tracing App
4. Android App for our College



# SOFTWARE PROJECTS

## UI/UX Design



# SOFTWARE PROJECTS

## Database Management Systems



# SOFTWARE PROJECTS

## Cyber Security Systems

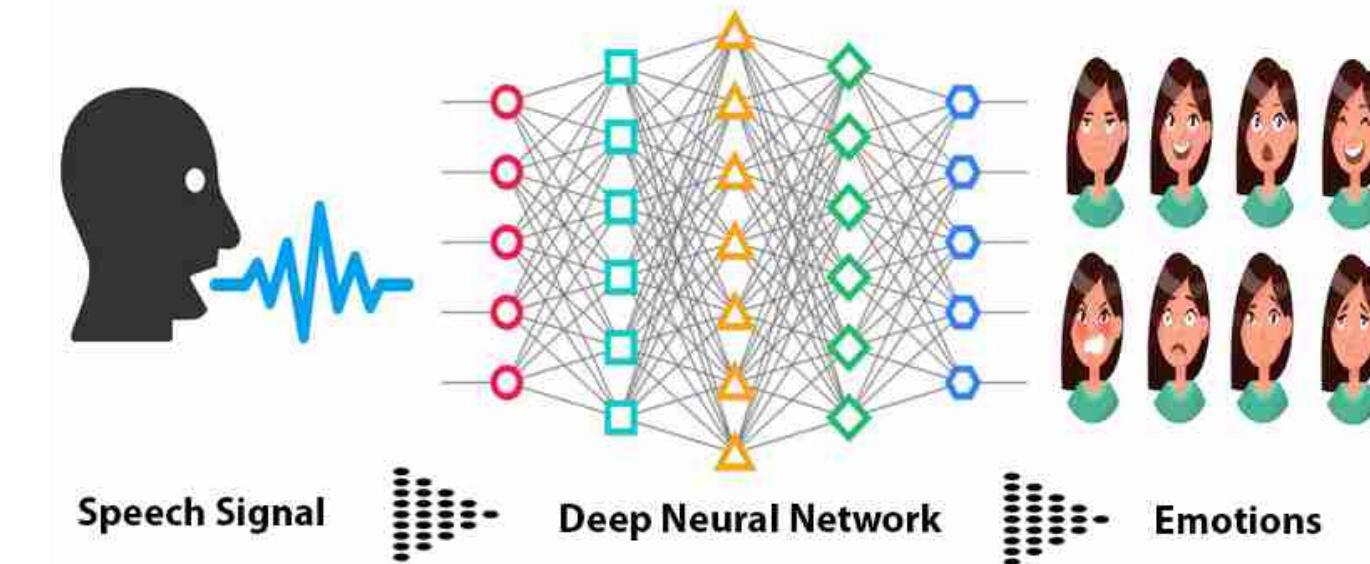
<https://nevonprojects.com/information-security-projects/>



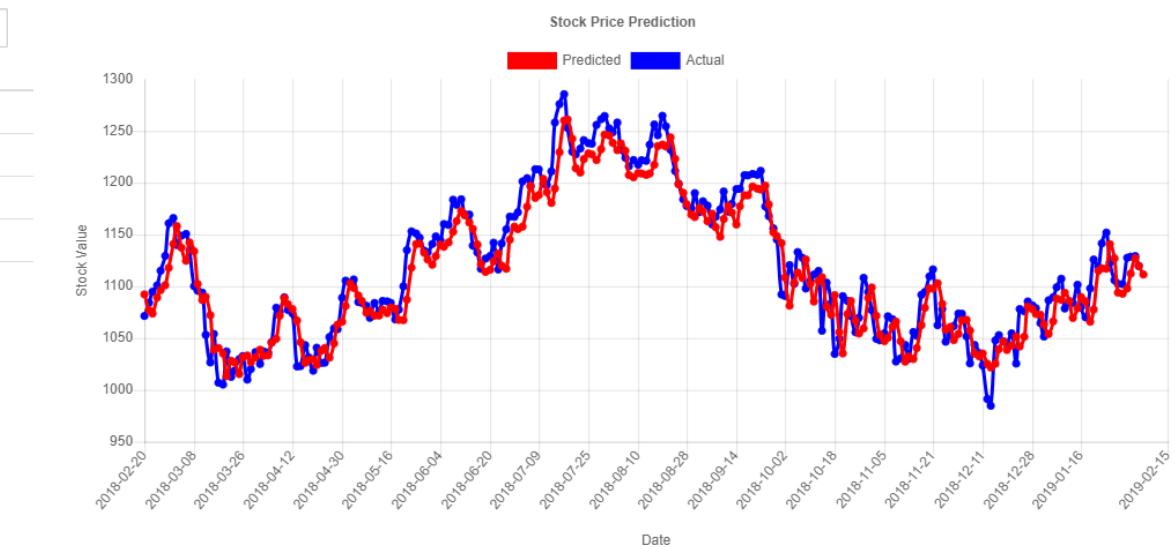
# SOFTWARE PROJECTS

## AI/ML systems

1. Stock Price Prediction
2. Fake News Detection
3. Bitcoin Price Predictor
4. Uber Data Analysis Project
5. Sentiment Analysis
6. Speech Emotion Recognition



Symbol
GOOGL
AAPL
MSFT
AMZN
TSLA
...
is: 0.0045591918751597404
GOOGL for date 16-02-2019 is: 1111.443\$



# SOFTWARE PROJECTS

## Big Data Analytics

1. Crime Prediction
2. Analyzing Nuclear Physics Data
3. Simulating and Predicting Traffic
4. Modelling Natural Language
5. Fraud Detection
6. Market Basket Analysis
7. Weather Data Monitoring System

$$\text{Rule: } X \Rightarrow Y$$
$$\text{Support} = \frac{\text{frq}(X, Y)}{N}$$
$$\text{Confidence} = \frac{\text{frq}(X, Y)}{\text{frq}(X)}$$
$$\text{Lift} = \frac{\text{Support}}{\text{Supp}(X) \times \text{Supp}(Y)}$$

Example:

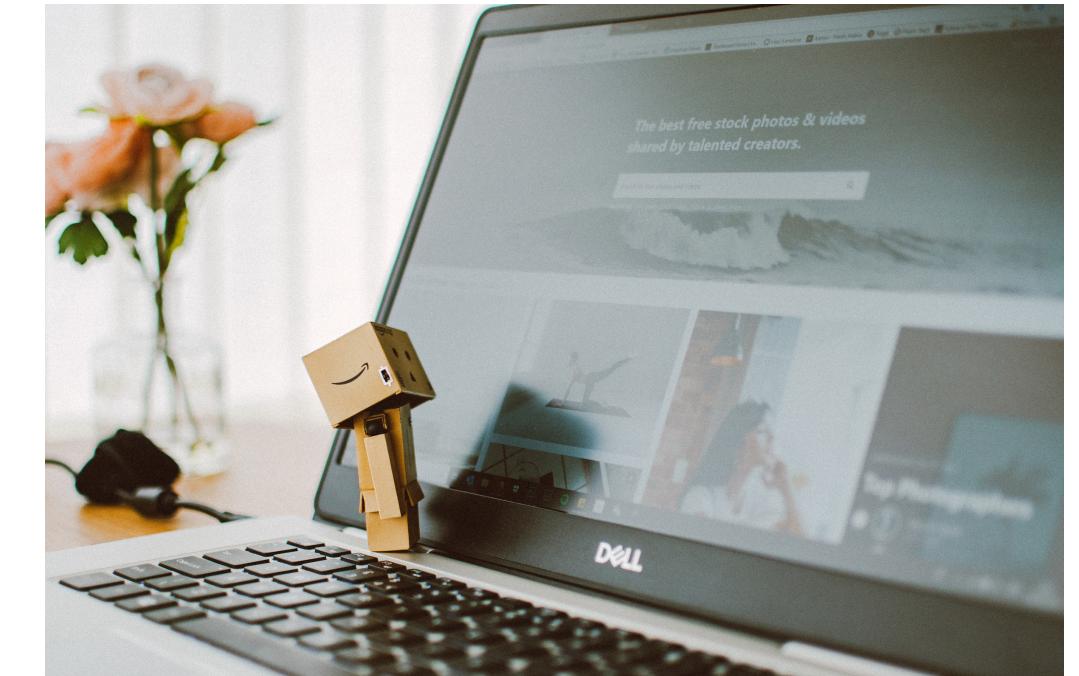
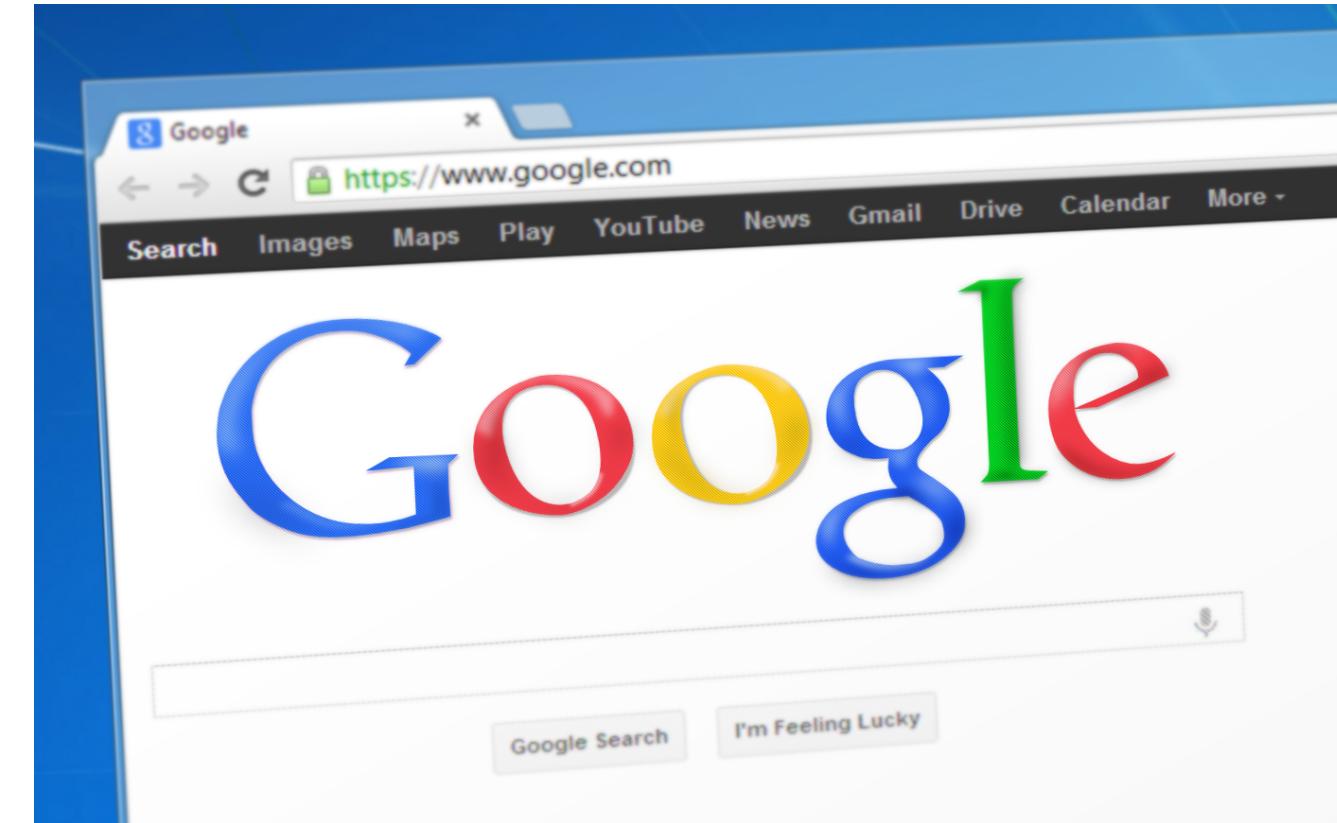


Rule	Support	Confidence	Lift
$A \Rightarrow D$	2/5	2/3	10/9
$C \Rightarrow A$	2/5	2/4	5/6
$A \Rightarrow C$	2/5	2/3	5/6
$B \& C \Rightarrow D$	1/5	1/3	5/9

# SOFTWARE PROJECTS

## Cloud Systems

1. Google : GCP
2. Microsoft : Azure
3. Amazon : AWS



# SOFTWARE PROJECTS

## Full Stack Development



# Websites

## Courses

Coursera  
Udemy  
LinkedIn Learning  
Lynda.com

## Hackathons

MyGov.in  
Hackerearth  
Devfolio  
LinkedIN

# **Any Questions ?**

***Thank You***