

Pranav Singhanian

☎ (+91) 9663084209 | ✉ pranavsinghanian08@gmail.com | 🌐 www.linkedin.com/in/pranav-singhanian

Projects

AUTONOMOUS QUADCOPTER

Ongoing

ROBOTICS

bit.ly/2016_IARC

- Solves the dynamic maze problem while avoiding obstructions autonomously
- Built code to communicate with the quad copter using the MAVLink communication protocol and empower it with autonomous maneuvering capabilities without the use of GPS
- Presented the journal article, "Autonomous Object Tracking and Obstacle Avoiding Multi-rotor" at IARC 2016, "Symposium on Indoor Flight Issues"

SPARQ

2017

NETWORK - ANDROID

bit.ly/SPARQAPP

- Developed two network architectures which form an adhoc network using only beacon frames of Bluetooth and WiFi
- The network architectures facilitate communication between the participating devices without the need for an active internet connection, a central master node or any form of pairing or association using Bluetooth or WiFi between the devices
- The architectures developed aid in the creation of an audience response system suitable for classroom interactions between students and teachers in the form of live quizzes and polls, question and answer sessions, voting, and automatic grading of submitted answers.

WEB PAGE RECOMMENDATION SYSTEM

2016

MACHINE LEARNING

bit.ly/WEB_REC

- Suggesting web page to user's based on his/her user history combined with the results of other users' browsing patterns and grouping users with similar interests
- Involved web scraping to train the machine learning algorithm using basic natural language processing techniques

Experience

GE Digital

2017

DIGITAL IT INTERN

- Worked with operations team to automate manual processes
- Built an entire Java tool, wrapper around HVR (High Volume Replication) tool to assist error-free and swift channel creation
- Developed scripts (shell and perl) to monitor logs in real time and take appropriate expected actions
- Worked in the data warehouse environment, ETL tool, etc
- Built dashboards to monitor the system, allowing pro-active resolution

Position of Responsibility

- 2016 **President**, Quotient Quiz Club, official quiz club of PESIT
- 2016 **Literary Head**, Core team member, Aatmatrisha'16, annual techno cultural festival
- 2016 **Technical Lead**, Team Aeolus, official aero-modelling club of PESIT
- 2015 **National Quiz Host**, Hosted national quiz across 12 cities of India

Education

- 2017 **PES Institute of Technology**, B.E., Information Science 9.37
- 2013 **CMR NPS**, CBSE 94.4 %
- 2011 **Presidency School**, ICSE 94.6 %

Publication

Autonomous Object Tracking and Obstacle Avoiding Multi-rotor

Journal Article

AEOLUS.PES.EDU

2016

Presented at IARC 2016, "Symposium on Indoor Flight Issues"