Rohit Rangaraj

Technophile, Roboticist and AI Enthusiast
rohitrangaraj2005@gmail.com

EDUCATION

SUGUNA PIP SCHOOL
GRADE 11 - 12 (CBSE)
Grad. Mar 2022 | Coimbatore, India

SSVM WORLD SCHOOL
GRADE 1 - 10 (CBSE)
Grad. Mar 2020 | Coimbatore, India
10th Finals : 86.4%

SKILLS

PROGRAMMING
Fluent
• React • Python • C++ • Android
• Bash • Vim • LaTeX
Skilled
• Java • JavaScript • C • C#
• ROS • CSS • HTML5
Familiar
• Haskell • React Native • Swift • SQL

MACHINE LEARNING
• TensorFlow • PyTorch • Keras
• NumPy • Pandas • SciKitLearn

ROBOTICS
Areas of Work
• Simultaneous Localization and Mapping
• Object Classification • Computer Vision
Ecosystems
• Intel RealSense • Tetrix • Vex
• Modern Robotics • EV3 • NXT
IOT
• Arduino • Raspberry Pi
• NodeMCU • ESP8266 • ESP32
• Networking Concepts in IOT
• Electronic Circuits

DEVOPS
• Docker • Kubernetes • GCP
• Firebase

GAME DEVELOPMENT
• Unity3D • Unreal Engine

3D MODELLING
• Fusion 360 • Creo (Assembly)
• AutoCAD • Blender

RESEARCH

A BENCHMARK OF DEPTH PREDICTIVE SLAM ALGORITHMS
• How does using **Convolutional Neural Networks** to process RGB sensor data affect the accuracy of state estimates from **Simultaneous Localization and Mapping** algorithms with different sensor models (RGB-D, RGB, D)
• Mentored by Emily Sheetz from the **University of Michigan, Ann Arbor**
• In the process of submission to **IEEE MIT Undergraduate Research Technology Conference** under the **Robotics and Controls** Track

MULTI-VARIATE ANALYSIS OF THE MEME STOCK PHENOMENA
• A **multi-variate statistical analysis** of hedge fund asset suppression and community response to "meme stocks" ($AMC and $GME) with **Machine Learning**
• Mentored by Samuel Showalter from the **University of California, Irvine**
• ***Final Paper***

COURSES
• HarvardX CS50: Introduction to Computer Science
• UMich's ROB 530: Mobile Robotics: Methods & Algorithms (Graduate course)
• MITx 11.126x: Introduction to Game Design
• CMU's 15-112: Fundamentals of Programming and Computer Science
• Andrew Ng's Deep Learning Specialization

ACHIEVEMENTS

2019	**International**	**3rd Prize**, World Adolescent Robot Contest, Chongqing, China
2018	**National**	**Leader** of Finalist Team, FIRST Tech Challenge Relic Recovery
2017	**National**	**Finalist** Team, FIRST Tech Challenge Velocity Vortex
2019	**School**	**President**, Science Club for 5 years
2018	**Karate**	**Brown** Grade Belt Holder

LINKS
Personal Website:// **Rohit-Rangaraj**
Github:// **Rohit-Rangaraj**
Github:// **Revno-Official**
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