

Rohit Rangaraj

Technophile, Robotist and AI Enthusiast
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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#
- HTML5 • CSS • ROS

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
- MITx 11.126x: Introduction to Game Design
- CMU's 15-112: Fundamentals of Programming and Computer Science
- UMich's ROB 530: Mobile Robotics: Methods & Algorithms
- 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](#)

Instagram:// [_rohi_21_](#)

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