RAHUL RANGARAJAN KANNAN

CAREER OBJECTIVE

To pursue a job opportunity in a competitive environment that will challenge me to push my boundaries and expand my knowledge in the field of computer science while allowing me to add value to the dynamics of the company.

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EDUCATION

B.Tech Information Technology
Sri Venkateswara College of Engineering
2017 - 2021 **CGPA - 9.66/10**

Class XII (CBSE - Computer Science)
Kola Perumal Chetty School, Chennai
2017 **Marks - 409/500**

Class X (CBSE)
Jawahar Vidyalaya School, Chennai
2015 **CGPA - 9.6/10**

PROJECTS

Vehicle Recognition and Compilation in Database
(05/2020 - Present)
- ➔ Realtime license plate recognition along with vehicle make, model, color, damage, location, and Timestamp of suspected vehicles from CCTV footage.
- ➔ 7 neural networks and algorithms with 12 distinct predictions.
- ➔ 0.3 ms inference time and 86% accuracy.

Attention Span Tracking in Online Education using Artificial Intelligence *(09/2019 - 03/2020)*
- ➔ Advanced proctoring system developed using Image processing in Python to prevent cheating in online classes and exams using webcam and microphone.
- ➔ Face detection and recognition, Body position change, Eye position tracking, Blink rate detection, and Background noise level detection - Multithreaded functions.

Self-Driving Car Simulation using Convolutional Neural Networks *(11/2018 - 03/2019)*
- ➔ Developed a CNN to drive a car autonomously in GTA V with 97.8% training accuracy and 90% validation accuracy.
- ➔ Training data collected manually from 20+ hours of gameplay.
- ➔ Advanced lane detection, Vehicle and Obstacle detection, and Collision avoidance.

American Sign Language Recognition and Assistive tool for visually challenged people *(09/2018 - 11/2018)*
- ➔ Developed a CNN to detect and recognize hand gestures of American Sign Language with 91% accuracy.
- ➔ Trained using the dataset consisting of 300 images for each class for a total of 26 alphabets and 10 digits.

PUBLICATION

Real-time Attention Span Tracking in Online Education *(12/10/2020)*
Paper has been accepted for presentation at the **IEEE MIT URTC 2020** (Undergraduate Research Technology Conference)

TECHNICAL SKILLS

Python | OpenCV | TensorFlow | Keras | Flask
C++ | HTML | CSS | JS | NodeJS | MongoDB

WORK EXPERIENCE

AI/ML Engineer Intern
Hueint Pvt Ltd *(08/2020 - Present)*
- ➔ Developed an AI Time table scheduler using Genetic algorithms for Hueazia, an Institution management suite.
- ➔ Developing an AR-based learning module for students.

Software Developer Intern
Doyen System Pvt Ltd *(05/2019 - 06/2019)*
- ➔ Learned about Oracle, Cloud, NLP, APEX, and chatbots.
- ➔ Developed a voice-enabled cloud-based chatbot using ALAN AI for an interactive realtime news application.

ACHIEVEMENTS

Budding Engineer Award by SVCE
Meritorious academic performance (Topper of the department)

Finalist of Smart India Hackathon 2020 *(07/2020)*
Vehicle Recognition and Compilation in Database software

Secured second place in Hack & Tackle 2.0, a National level 24-hour hackathon at SSN *(02/2020)*
Attention Span tracking in Online Education using AI

Secured second place in SVCE Innovates - Student's Research Day *(03/2019)*
Research work on Self-driving car simulation using CNN

Secured second place in Thinkathon 2019, a 24-hour hackathon conducted by SVCE *(02/2019)*
Lab report digitization using Optical Character Recognition

Secured first place in Protocol 21e, a National level symposium conducted by SVCE *(10/2018)*
ASL Recognition and Assistive tool for visually challenged people

CERTIFICATIONS

- ➔ Machine Learning with TensorFlow on Google Cloud Platform Specialization on Coursera
- ➔ Neural Networks and Deep Learning on Coursera
- ➔ Python for Data Science and Machine Learning Bootcamp on Udemy
- ➔ The Web Developer Bootcamp on Udemy
- ➔ Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning on Coursera