RAHUL KUMAR

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EDUCATION-----

Bachelor of Engineering

Coimbatore, India May 2020

EXPERIENCE-----

1. Prototype Fast Breeder Reactor

Kalpakkam, India

Networking and Communication Systems Intern | Advisor: Mr. Narasimhan

PSG College of Technology, Computer Science Engineering | CGPA: 8.33

Summer 2019

- Learned about various implementation methods of data networking and its monitoring, Gateways, Servers and Control room simulation in a nuclear power plant.
- Worked in development of a more efficient PLC based safety critical software for nuclear power plants.

2. Walinns Analytics,

Coimbatore, India

Mobile App Development Intern | Advisor: Ms. Subhiksha

Spring 2019

- Helped develop an android application to manipulate and visualize real time tracking data of various apps which include features such as daily active users, user retention rate and many more.
- Developed a simple chatbot module for the mobile app using IBM Watson APIs which can be extended to a self-learning bot.
- Successfully tested the prototype against a custom-built Notes android app so that the final product can be used across various other mobile android and iOS apps.

SELECT PROJECTS------

1. Tamil Language Text Recognition and Conversion to Speech for Visually Impaired (In Progress) PSG College of Technology, Department of Computer Science | Advisor: Dr. Suriya S Fall 2019

- Leading a team of 4 in exploring and developing an enhanced computer vision model for recognition of Tamil text patterns whose results can be used as input for a text to speech conversion module.
- Collected a new dataset with 300 images for each of the 247 Tamil characters, pre-processed the dataset and trained a Convolutional Neural Network model to recognize the characters with a training accuracy of 89% and test accuracy of 87%.
- Development of Tacotron and WaveNet based end to end fully text to speech synthesis in progress.
- 2. Al Bot for Gomoku Game | Lead a team of 4

PSG College of Technology, Department of Computer Science

Fall 2019

- Developed an AI Bot to play Gomoku(connect 5) in python using Minimax algorithm with alpha-beta pruning and Intelligence coefficients. Code available on GitHub.
- 3. Sign Language Detection using TensorFlow | Hobby Project

PSG College of Technology, Department of Computer Science

Spring 2019

- Developed a system using OpenCV and TensorFlow. A Convolutional Neural Network model that can detect sign language English alphabets. Hand signs are detected using a webcam.
- The model was successfully trained using alphabet dataset from Kaggle and achieved a test accuracy of 93%. Code available on GitHub.

4. CSEA Hackathon Website | CSEA Hackathon Team Leader and Host

PSG College of Technology, Computer Science Engineering Association

Spring 2019

• Single-handedly developed and hosted a Responsive Website for the inter department Hackathon with 504-page views and 231 team registrations under 24 hrs. Link: cseahack.github.io

PUBLICATION------

S. Suriya, M. Rahul Kumar, "Solving Travelling Salesman Problem using an Enhanced Ant Colony

Algorithm", International Journal of Computer Sciences and Engineering, Vol.7, Issue.7, pp.214-222, 2019.

SKILLS-----

Programming and WebDev Languages: C++, Java, Python, C, HTML, CSS, php

Tools and Packages: Android Studio, NumPy, pandas, matplotlib, OpenCV, TensorFlow.

Operating systems: Ubuntu 16.04.4, Kali Linux 2018.2, Windows 10