https://aravindkrishnar.github.io/blog/

https://github.com/AravindKrishnaR

ARAVIND KRISHNA R

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EDUCATION

Chennai, India	VIT University	July 2018 - Present

- **Major:** B Tech Computer Science and Engineering   **CGPA:** 8.72
- **Programming Coursework:** OOPS, Data Structures and Algorithms, Database Management System, Operating System, Networks and Communication, Internet and Web Programming, Software Engineering, Natural Language Processing

EXPERIENCE

Scilab Toolbox Development	FOSSEE club of VITCC & IIT Bombay	April 2020 – June 2020

OpenMP Toolbox (Hackathon Finalist - Top 12) (https://github.com/VIT-Scilab/SciMP.git)
- Developed a toolbox that integrates the OpenMP library in Scilab.
- A total of 31 OpenMP functions were implemented which includes various region control, environment execution, timing routines and lock functions. Pushed to Atoms.

Operating System Toolbox (https://github.com/VIT-Scilab/OS_Toolbox.git)
- Developed a toolbox that allows the implementation of various Operating System functions in Scilab.
- A total of 20 Operating System functions were implemented which includes various scheduling, memory allocation, resource allocation and deadlock avoidance algorithms. Pushed to Atoms.

PROJECTS

Sustainable Agriculture (https://github.com/AravindKrishnaR/Sustainable-Agriculture.git)
- Developed a one stop website that utilizes various Machine Learning concepts and algorithms to implement 4 modules namely Crop recommendation, Fertilizer recommendation, Yield prediction and Disease detection.
- Simulated an IoT based Smart farm system using Node-RED that automates the process of obtaining soil nutrients(NPK values) and pH values.
- The temperature, rainfall and humidity values have been automated using API calls on the basis of the location input.
- Utilized Google Colab, Python, Node-RED, HTML, JavaScript, Bootstrap.

Online Quiz Portal (https://github.com/AravindKrishnaR/Online-Quiz.git)
- Developed an online quiz portal that lets the teacher or admin create a quiz and post relevant questions and lets the student to attempt the quiz and assess themselves after the quiz using a fully automated system.
- Implemented the above system using the DAO design pattern.
- Utilized HTML,CSS, JSP, Java and MySql with Apache Tomcat as the server.

Movie Review Classification (https://github.com/AravindKrishnaR/Movie-Review-Classification.git)
- Developed and trained a model for sentiment analysis that classifies as good or bad based on the reviews received by it using text classification techniques.
- The movie review dataset was cleaned and preprocessed and 3 different feature extraction techniques(top-N words,bag-of-words,unigrams and bigrams) were used to combine the reviews into features. Naive Bayes classifier was then used to perform the classification.
- Utilized Google Colab, Python, NLTK.

Timetable Generator Webapp (https://github.com/AravindKrishnaR/Timetable-Generator.git)
- Developed a webapp which automates the process of timetable generation, which in turn solves the problem of clash in timings during allocation of slots.
- Utilized HTML, CSS, JavaScript, PHP, phpMyAdmin and Xampp.

Maze Generation and Solving Game (https://github.com/AravindKrishnaR/Maze-Generation-and-Solving.git)
- Developed a maze game which can be solved by the user using the concepts of stack and backtracking.
- Utilized C++.

Languages and Technologies

Proficient: C, C++, Python, Java, HTML, JS, MySql, JSP, Git **Familiar:** Bootstrap, PHP, Latex, MATLAB, R, Scilab