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**EDUCATION****Chennai, India****VIT University****July 2018 - Present**

- **Major:** B Tech Computer Science and Engineering **CGPA: 8.77**
- **Programming Coursework:** OOPS, Data Structures and Algorithms, Database Management System, Operating System, Networks and Communication, Internet and Web Programming, Software Engineering, Natural Language Processing

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**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 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 (Toolbox manager).

**Operating System Toolbox** ([https://github.com/VIT-Scilab/OS\\_Toolbox.git](https://github.com/VIT-Scilab/OS_Toolbox.git))

- Developed a toolbox that allows implementing 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 (Toolbox manager).

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**PROJECTS****Sustainable Agriculture** (<https://github.com/AravindKrishnaR/Sustainable-Agriculture.git>)

- Developed a one stop website that utilizes various Machine Learning 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.
- 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 create a quiz and lets the student attempt the quiz and assess themselves.
- 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 movies as good or bad based on the reviews using text classification techniques.
- The movie review dataset was cleaned, 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 Web app** (<https://github.com/AravindKrishnaR/Timetable-Generator.git>)

- Developed a web app which automates the process of timetable generation, which resolves 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 that generates a solvable maze using backtracking.
- Allows user to navigate through the maze using arrow keys.
- Utilized C++.

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**Languages and Technologies**

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