S Madhumithaa

Software Developer . Programming Enthusiast . Machine Learning
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Education

Sri Sivasubramaniya Nadar College of Engineering *Chennai, TN*
Bachelor of Engineering | Computer Science *(Register No: 185001087)* *Aug 2018 – Present*
CGPA: 8.9/10 (first 6 semesters)
Activites: Active member of National Service Scheme (NSS).

Vanavani Matriculation Higher Secondary School *Chennai, TN*
Computer Science, State Board *Jun 2010 – May 2018*
Percentage: 94.6 (class X)
Percentage: 94.25 (class XII)
Achievements: Mathematics Topper(2016), Proficiency Prize Winner(2017), Science Stream topper(2018)

Experience

Litwiz Labs *June. 2021 - July 2021*
Software Developer Intern
- Developed Full Stack Applications using React js. Tracked agile process development using JIRA
- Worked on prototyping browser based ML models. Built ML & CV model libraries using tensorflow js. Built custom models on top of pretrained models.

Projects

DRUGSTORE MANAGEMENT | *C prg* *2019*
- A real world problem, drug store inventory management, has been designed and implemented using data structures such as bst & queue.
- This system enables users to track, validate and manage drug inventory of a store.

STUDENT-TEACHER RECORD MANAGEMENT | *JAVA* *2019*
- An essential tool built using JAVA with an objective to facilitate the teachers and students.
- This application maintains grades, attendance, courses and user records.

SNIPPET MANAGER | *React js, Node js, MongoDB* *2021*
- A Fullstack application that provides an administrative interface to manage and render code snippets using cloud native platforms.
- This system uses Axios, a client library to add, edit and manage snippets over cloud.
- JsonWebToken is used in the backend to implement user authorization.

CHESS CONFIGURATION DETECTION | *DL, CNN* *2021*
- The problem is best framed as a 13-class, single-label classification, which identifies configuration of the given state of a chess board. The project presents a learning based model, a three layer Convolutional Neural Network (CNN), for identifying the FEN configuration of a chessboard using image classification.
- The imbalance in the dataset was rectified using Random Under Sampler. The model was trained on this corpus for 50 epochs using Adam optimizer and achieved 99% accuracy on the training data.

AIRLINE RESERVATION SYSTEM | *Flask, Python* *2021*
- A web-based booking system that assists users with different airline management tasks.This system provides inventory and rates in real-time to customers as well as travel agents.
- This project stores and manages airline data over MongoDB Atlas. The user authentication data is managed using SQLite through the SQLAlchemy library.

Technical Skills

Programming Languages: Python, C++, C, JavaScript, Java, HTML, CSS, Dart
Frameworks & Libraries: React js, Node js, Tensorflow js, Flask, Flutter, Scikit-learn, Pandas, NumPy
Other Skills: Version Control, Shell Scripting, Jira
Courses: Web development with HTML, CSS and Javascript, Mern stack, Flutter App Development, Cloud computing, Deep Learning Fundamentals with Keras, Machine Learning Scientist with Python