

# TEJAS RAJANNA

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## Academic Qualifications

Course/Program	Institute	Year	CGPA/%
B.Tech (Computer Science Engineering)	PES University, Bangalore	2019-Present	8.17/10(3 <sup>rd</sup> sem)
Class XII (CBSE)	CMR National Public School, Bangalore	2019	88.8%
Class X (ICSE)	Sishu Griha Montessori and High School, Bangalore	2017	96% (Centum in Mathematics)

## Technical Skills

**Beginner:** SQL, MongoDB, Arduino, MATLAB, ARM assembly language, Native Android application development

**Intermediate:** Java, C++, CSS3, JavaScript, React.js, Node.js, Express.js, HTML5

**Advanced:** C, Python

## Key Projects

**Title: Hypothesis Testing**

**Duration:** Oct'20-Dec'20

**Brief Description:** The aim was to analyse the used cars dataset to get an overview about the specifications which had greatest influence in determining the price of the car. Exploratory Data analysis was carried out, hypothesis was formulated and tested.

**Title: Music Streaming Website**

**Duration:** Sep'20-Nov'20

**Brief Description:** Developed a MERN stack web application to mimic music streaming site with integrated login page. Created a streaming API connected to the database of songs and users.

**Title: Electronic Voting Machine**

**Duration:** Feb'20-May'20

**Brief Description:** Used C to implement basic functionalities of an EVM such as recording vote at click of a button, sound to confirm the vote, counting and representation of result in the form of a graph.

**Individual Contribution:** Mouse pointer manipulation (int86 and union REGS) and graphing the final result.

**Title: Tic Tac Toe Bot**

**Duration:** Apr'21-Present

**Brief Description:** This bot enables users to play tic tac toe in a discord channel. A 3x3 grid is initially rendered and then updated according to the moves made. It was created using Python and employs Redis as the database

## Relevant Coursework

### Design and Analysis of Algorithms

- Design and implement efficient algorithms for practical and unseen problems.
- Learn to trade space for time in algorithmic design using input enhancement and per-structuring.

### Web Technologies

- The core concepts of HTML5, Advanced JavaScript, JQuery and AJAX through simple hands-on exercise.
- The industry trending MERN (MongoDB, ExpressJS, ReactJS and NodeJS) stack

### Data Structures and Its Applications

- Basic approach and mindset for analyzing and designing data structures.
- Implement how to insert, delete, search and modify data in Stack, Queue, List, Tree, Heap, Graphs.

### Statistics for Data Science

- Knowledge of random variables, confidence intervals and importance of data visualisation techniques
- Techniques of predicting a relationship between the two sets of data and determine the goodness of fit model.

## Extracurricular Activities

### PredictThis- Machine Learning and Data Science Club at PES University (2020-Present)

- Grasped the fundamentals of machine learning and data science.
- Instrumental in curating the course work for juniors with my experience.

### Member of Student Council at Sishu Griha (2014-2016)

- High School Captain of one among the four student houses.
- Vice Captain of one among the four student houses.

### Sports

- Took part and excelled in several individual track and field events
- Won awards in various team sports such as Volleyball and Football at the school level.