

EDUCATION

- **PSG College of Technology** Coimbatore, India
Bachelor of Engineering in Computer Science and Engineering *July. 2017 – May. 2021*
CGPA: 3.67/4.0 (9.19/10.0) Till 5th Semester
- **Green Park Matriculation Higher Secondary School** Namakkal, India
11th to 12th State Board; Percentage: 97.00 *June. 2016 – July. 2017*
- **Bhavans Gandhi Vidyashram** Kodaikanal, India
10th CBSE; GPA: 10 (10/10.0) *June. 2014 – July. 2015*
Merit Cards for Academic Excellence in classes 9th and 10th

INTERNSHIPS

- **Mindnotix** Coimbatore, India
Software Engineer *Dec 2019 - Present*
 - **Smile Designing using AI:** Software to aid dentists in Smile Design Treatment
- **Samsung** Bangalore, India
Software Engineer *Jan 2020 - Present*
 - **Machine Learning based event predictor for Smart Cells:** Analysed log files of Samsung Small Cells to predict events and failures

PROJECTS

- **Emotion Detection from Tom and Jerry videos:**
Developed a YOLO Object Detection module to locate the faces of Tom and Jerry from the given frame
Developed an Emotion Detection module to predict the type of emotion from the given face Utilized : OpenCV (for Object detection), PyTorch (for Emotion detection), Python, LabelImg
- **Cricket Blog and IPL Data Analysis Application:**
Built a blog and polling app for cricket enthusiasts. Also implemented data analysis programs to analyse IPL data
Utilized : Django, PostgreSQL(Backend), HTML and CSS(Frontend), Psycopg2, numpy, matplotlib, pandas
- **Improvised shell for xv6:**
Included functionalities of cp,mv,head,tail,clear,cd,pwd into XV6 with and 2 editors Capable of writing and executing basic shell scripts
Project Link : <https://github.com/SurajSubramanian/XV6-with-an-improvised-shell>
- **Machine Learning Programs:**
Implemented Simple and Multivariate Linear Regression, Logistic Regression and a Neural Network from scratch using numpy
Project Link : <https://github.com/SurajSubramanian/XV6-with-an-improvised-shell>
More projects can be found at <https://github.com/SurajSubramanian?tab=repositories>

ACHIEVEMENTS

- **Secured First place in Detect Emotions of your favourite toons conducted by Hackerearth:** Deep Learning challenge to detect emotions from Tom and Jerry videos
<https://www.hackerearth.com/challenges/competitive/hackerearth-deep-learning-challenge-emotion-detection-tom-jerry-cartoon/>
- **Secured First place in Datathon conducted at CIT:** A Machine Learning challenge hosted on Kaggle
<https://www.kaggle.com/c/melinia-2020/data>