Suraj Subramanian A

http://github.com/SurajSubramanian

Email : surajsubramanian2000@gmail.com

Mobile : +91 99524 75824

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**   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 Project Link : https://github.com/SurajSubramanian/EmotionDetection

- **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