# Gautham Sreeram Dasu

gauthamdasu.github.io
Gautham Dasu

Email : gauthamdasu@gmail.com
Mobile : +91 6302417188


## Education

- **Sri Sathya Sai Institute of Higher Learning** — Prasanthi Nilayam, Puttaparthi, India.
  *Master of Technology in Computer Science; GPA: 8.375/10 (3 Semesters)* — *2018 – 2020*
- **Sri Sathya Sai Institute of Higher Learning** — Prasanthi Nilayam, Puttaparthi, India.
  *Master of Science in Mathematics; GPA: 7.8/10.0* — *2016 – 2018*
- **Sri Sathya Sai Institute of Higher Learning** — Prasanthi Nilayam, Puttaparthi, India.
  *Bachelor of Science(Hons.) in Mathematics; GPA: 7.1/10.0* — *2013 – 2016*

## Graduate Projects

- **M.Tech:**
  *Detection and extraction of information from scanned documents.* — *June 2019 - Present*
  - **Identity Cards**: Automatic detection and extraction of different fields from the scanned documents of different id cards using various techniques of image processing and deep learning.
  - **Tables in documents**: Detection and extraction of under utilized source of information i.e. **tables** in scanned documents using traditional image process and deep learning techniques.
- **Masters Dissertation:**
  *Watermarking for Medical Images using frequency and reversible techniques.* — *June 2017 - Apr 2018*
  - **Watermarking techniques for medical images:**: A study of available reversible watermarking techniques for secure transfer of medical images over Internet and a comparative study of available frequency techniques was done.
- **B.Sc**
  *A simple text editor with feature of tab suggestion of words written in c.* — *2015*
  - **C Mini Project**: As part of the course a simple word editor was built in c which had features of suggestion of words by press of tab, user login and user authentication, searching for a word in dictionary, insertion and deletion of words are additional features that were developed using pointers and data structures like trees.

## Area of interest and Technical Skills

- **Areas of Interests**: Image processing, Cloud Computing, Distributed Computing, Machine Learning, Distributed systems, HIPC, Spark, kafka and Hadoop.
- **Programming Languages**: C, C++, Python, Matlab.
- **Tools and Technologies**: AWS, Kafka, OpenCV, OpenMP, MPI, Jupyter Notebook, Hadoop, Cuda.

## Certifications and Presentations

- **Certifications : AWS** certified Cloud Practitioner, **AWS** Academy Cloud Foundations in English.
- **Presentation 1 :** Poster Presentation in topic of recommender systems titled *"A Novel Real-time Scalable Recommender System using Collaborative Filtering and NLP Techniques"* at
  $26^{th}$**IEEE International Conference on High Performance Computing, Data and Analytics,**
  Hyderabad, India.
- **Colloquium talks :**Colloquium talk on the worlds fastest super computer SUMMIT was given and on autonomous vehicles was also given with some demonstrations.

## Other projects

- **Financial Fraud Detection System for stream data** As part of my course built a financial fraud detection system which detects fraudulent transactions if any in streams of customer and merchant streams using kafka, ksql and python as programming tools.
- **SSSIHMS – AVAS** Deployed a web based voice announcement system AVAS(Automated Voice Announcement System) which has a simple web interfaces through which recorded voices related to blood requests in blood bank of SSSIHMS are played through the hospital audio system. Project was developed in python.
- **News on VOICE** A simple python application where the news from the news website is scrapped and is given as a voice output. Project developed in python.**link**
- **Voice Controlled home devices** Built a voice based home device control system where devices like bulbs and fans along with switching the camera on and off along with option of photo clicks was done using pythons and googles *speech-to-text* module.

## Interests and other activities

- Interests: Member of a traditional band playing Tenor Saxophone, which performs on festivals and other cultural events.
- Sports and CulturalParticipated in drama activities and other cultural activites conducted in our Institute. Participated and won in inter house sports and cultural events like orchestra, drama, ball badmintion and basketball.