GAUTHAM SREERAM DASU

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EDUCATION

Master of Technology in Computer Science

Sri Sathya Sai Institute of Higher Learning GPA: 8.375*/10

Key Courses: Advanced Algorithms, Digital Image processing, Distributed Systems and Big Data Analytics.
Labs: Distributed Systems, Digital Image Processing, HIPC.

Jun 2018 – April 2020 Prasanthi Nilayam, Andhra Pradesh.

* – 3 Semesters GPA.

Master of Science in Mathematics with specialization in Computer Science

Sri Sathya Sai Institute of Higher Learning GPA: 7.8/10

Key Courses: Databases, Numerical Linear Algebra, System Programming, Data Mining.
Labs: C++, JAVA Programming.

Jun 2016 – April 2018 Prasanthi Nilayam, Andhra Pradesh.

Bachelor of Science(Hons.) in Mathematics

Sri Sathya Sai Institute of Higher Learning GPA: 7.1/10

Jun 2013 – April 2016 Prasanthi Nilayam, Andhra Pradesh.

GRADUATE PROJECTS

Automatic Detection and Extraction of Information from Scanned Documents.

June 2019 – March 2020

- Built an end - end pipeline using YOLO with an accuracy of 94% and mAP of 0.78 for the operations of automatic detection, extraction and update to a database(and excel output).
- Improved the overall accuracy of the model from 72% to 94% using different image processing techniques and string operations.
- Provided web interface for the above operations. Ported the trained model to Android device for relevant field detection in near real time.
- Implemented and modified techniques for automatic detection of tables and cells in table present in scanned documents.

A Comparative Study of Watermarking techniques for Medical Images using Frequency and Reversible techniques.

June 2017 – March 2018

- Implemented techniques related to reversible water of medical images using reversible water marking techniques.
- A comparative study of frequency based techniques and reversible techniques w1as made.

Text editor in c.

November 2015 – March 2016

- Implemented text editor with features of password protected user interface, tab key press word suggestion.
- Functionalities like searching, insertion, deletion of words in the editors dictionary were also created.

AREA OF INTERESTS

Algorithms and Data Structures, Image processing, Distributed Systems, Cloud Computing, High Performance Computing.

ACHIEVEMENTS

- Presented a poster in Student Research Symposium, IEEE International Conference on High Performance Computing (HIPC - 2019), Hyderabad, India
- AWS **Certified Cloud Practitioner**
  Dec 2019 - Dec 2022

SKILLS

Programming Languages:

C, C++, Python, Matlab and working knowledge of JAVA.

Tools and Technologies:

Jupyter Notebook, AWS, Kafka, Opencv, Flask.

OTHER PROJECTS

Financial Fraud Detection System:

- Simulated financial transaction streams and flagged fraudulent transactions using Ksql and kafka.

SSSIHMS - AVAS:

- Developed and deployed an web based voice announcement system for automatic announcements of blood requests from a locally hosted server with mobile and web interfaces.
- Handled a special case of live streaming of devotional songs and pausing during the announcement and play back after announcement is done.

Voice controlled home devices:

- Created a voice based home devices control using google speech to text module and gpio programming in python.

Blogs : Medium

EXTRA CURRICULAR

- Active member and section leader of a traditional band in the university.
- Vice-Captain for the winning Orchestra team in the year 2019.

OTHER INTERESTS

blogs | Music | Dramatics | Basketball | Photography