

# SAI SAKETH CHAMARTHI

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[Website](#)

## EDUCATION

### Masters in Computer Science

University of Illinois Chicago

Relevant Coursework: Computer Algorithms, Concurrent Programming, Human Computer Interaction.

Aug'21 – Dec'22

GPA– 4.0

### Bachelor of Technology in Computer Science and Engineering

SRM Institute of Science and Technology

July'16 – May'20

Percentage: 83.95%

## WORK EXPERIENCE

### Data Scientist Intern | Salcit Technologies, Hyderabad, India

Sept'20 – Jan'21

- Analyzed **restrictive** and **obstructive** lung disease datasets to identify patterns in patients and employ prediction models.
- Developed an EDA case study to derive insights from data using data visualization techniques.
- Applied feature selection algorithms (**Mutual Information** and **Recursive Feature Elimination**) to identify top 10 impactful attributes.
- Engineered a prediction model based on Multi-Layer Perceptron with **85% accuracy** to execute multi-label classification amongst healthy, restrictive, and obstructive data points.

### Application Development Intern | Exaact Compusoft Global Solutions, Hyderabad, India

Mar'20 – June'20

- Directed an independent project to build a face recognition application for desktops employing **Python** and **AWS API**.
- Programmed functions to create collections and add multiple faces to each. Added functionality to detect and tag faces from photos and videos.
- Devised interface by leveraging **Tkinter** GUI toolkit for front end component and **DynamoDb** to store facial data on backend.
- Tested application on recorded videos and images; achieved an **accuracy** of **90%**.

### Machine Learning Intern | Moschip Semiconductor Technologies, Hyderabad, India

June'18 – July'18

- Assisted the development team in creating a facial recognition software for **employee identification**.
- Reduced number of real-time captures required by **90%** by developing a dataset utilizing image augmentation techniques.
- Deployed **Convolutional Neural networks** to build a classifier recording an **accuracy** of **96%** with real images and **94%** with augmented dataset.

### Software Testing Intern | Skyhigh Networks, Hyderabad, India

Dec'17 – Jan'18

- Worked with testing team responsible for troubleshooting company software on **MacOs**, **Linux** and **Windows**.
- Configured a **"tool"** used to classify folders and logs under directories and further calculate static and dynamic disk space usage.

## ACADEMIC PROJECTS

### De-Binge Netflix | Vue.js

- Worked on the front-end model of a website to track user's Netflix **watch pattern** and help in reduction of screentime.
- Created multiple pages that gives user the flexibility to opt from multiple plans and compare screentime with **peers**.
- Designed a **"Binge-O-Meter"** that displays the user's current binge session and history.

### Inventory Management | Java

- Utility tracks diagnostic tests in a testing site, a laboratory and records movement of tests between them whilst recording test results.
- Implemented **coarse-grained** and **fine-grained locking** and maintained **concurrency** requirements.
- Used both **blocking** and **non-blocking** techniques to program the working of the inventory.

### HealthCare Chatbot | Python & NLTK

- Developed a chatbot operating on python language to assess user's **health condition** based on text input.
- Conceptualized a function to identify most informative characteristics of user input including a user's **verbal fluency**, **talkativeness**, **cognitive complexity**, and inhibitions by performing stylistic analysis with **NLTK**.
- Generated a summarized report correlating linguistic features with relevant **psychological construct**.

### ICU Mortality Prediction | Logistic Regression, Random Forest & XGBoost

- Predicted the survival of a patient with 180 attributes derived from data of first 24 hours in intensive care.
- Implemented **Logistic regression** and **Random Forest** algorithms on data, evaluated with **K-cross** validation.
- Attained mean test **AUC** scores of **0.86** and **0.85** respectively; enhanced it to **0.9** using **XGBoost** classifier.
- Conducted EDA to visualize correlations and performed Feature selection to identify **top 45** features with an AUC score of **0.88**.

## TECHNICAL SKILLS

### Programming/Scripting Languages:

Python, C, C++, Java, SQL

### Frameworks and Tools:

TensorFlow, NumPy, Cisco Packet Tracer, React, Vue, Android Studio, AWS

### Web Technologies:

HTML, CSS, XML, JavaScript

### Software Skills:

MATLAB, MS Office, Git Bash, LaTeX, AutoCAD

### Database Management:

MySQL, Oracle, DynamoDB

## VOLUNTEER EXPERIENCE

### Board Member at "I Can Volunteer" foundation.

Taught arts and crafts to children suffering from cancer at healthcare centers alongside conducting storytelling and play sessions.

### Volunteer at "Orange Leaf" Foundation.

Conducted various campaigns in my city to spread awareness about environment cleanliness and also participated in a lake cleaning activity.

### Volunteer at "Teach for India" Foundation

Volunteered at a local government school for a month as teacher for Mathematics, English and Science to high school students.