

SAI SAKETH CHAMARTHI

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EDUCATION

Master's in Computer Science

University of Illinois Chicago

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

Aug'21 – May'23

GPA – 4.0

Bachelor of Technology in Computer Science and Engineering

SRM Institute of Science and Technology

July'16 – May'20

Percentage: 83.95%

WORKEXPERIENCE

Data Scientist Intern | Salcit Technologies, Hyderabad, India

Sept'20 – Jan'21

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

Project Intern | Exaact Compusoft Global Solutions, Hyderabad, India

Mar'20 – June'20

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

Machine Learning Intern | Moschip Semiconductor Technologies, Hyderabad, India

June'18 – July'18

- o Assisted the development team in creating a facial recognition software for **employee identification**.
- o Reduced number of real-time captures required by **90%** by developing a dataset utilizing image augmentation techniques.
- o 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

- o Worked with testing team responsible for troubleshooting company software on **MacOs**, **Linux** and **Windows**.
- o 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

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

Inventory Management | Java

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

HealthCare Chatbot | Python & NLTK

- o Developed a chatbot operating on python language to assess user's **health condition** based on text input.
- o 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**.
- o Generated a summarized report correlating linguistic features with relevant **psychological construct**.

ICU Mortality Prediction | Logistic Regression, Random Forest & XGBoost

- o Predicted the survival of a patient with 180 attributes derived from data of first 24 hours in intensive care.
- o Implemented **Logistic regression** and **Random Forest** algorithms on data, evaluated with **K-cross** validation.
- o Attained mean test **AUC** scores of **0.86** and **0.85** respectively; enhanced it to **0.9** using **XGBoost** classifier.
- o 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.