



## PROFILE

I am a highly organized, positive hardworking individual, who has acquired extensive knowledge in the field of data science and machine learning through various resources like Coursera, Udemy, Kaggle, Hacker rank, Youtube. I am an aspiring Data scientist and coding enthusiast. I like to solve coding challenges on hackerrank, participated in Kaggle competitions.

## SKILLS

### Statistical Programming

Proficient in **Python** and **machine learning** modules like **Tensorflow 2.0**, **Pandas**, **NumPy**, **Matplotlib**, **Sklearn**. **OpenCV**.

### Working with Data

Proficient in **SQL**, familiar with **excel** and **google docs**.

### Competitive programming

Python **data structures and algorithms**, Object oriented programming, familiar with modules in python like **math**, **time**, **pyautogui**, **itertools**, **random**.

## LANGUAGES

**English**, **Telugu**(Native language), **Hindi**

# CHENNA SAISANDEEP

## Data Science Student

## EDUCATION

### Chennai Mathematical Institute

Master's degree in Data Science  
Current GPA: 9.18

**Chennai, Tamilnadu**

August 2023 – Present

### Indian Statistical Institute

Bachelor's degree in Mathematics (Hons.)

Aggregate Percentage: 77% (1<sup>st</sup> Division with Hons.)

**Bangalore, Karnataka**

July 2019 – May 2022

### Sri Chaitanya Junior College

Telangana Board of Intermediate Education

Aggregate Score: 981/1000

**Hyderabad, Telangana**

July 2017 – May 2019

## EXPERIENCE

### Shree Cement Ltd. (Kolkata)

**May 2024 – Jul 2024**

#### Data Scientist intern

My project aims to improve the efficiency of solar power generation by creating a data-driven **anomaly detection system**. I have explored and applied various techniques, including **Isolation Forest**, **Local Outlier Factor**, **DBSCAN**, **One-Class SVM**, and **neural networks**. This has led to the development of a near real-time anomaly detection application that preprocesses data in real-time and integrates seamlessly with **Power BI** for visual inspection and analysis.

### Cloudcraftz AI(Kolkata)

**May 2023 – Jul 2023**

#### Data Scientist intern

I worked on evaluating the quality of large-scale tabular synthetic data generated by various GAN models using appropriate statistical metrics. I gained valuable experience in **explainable AI**, effectively explaining complex models such as deep neural networks, boosting and ensemble models. Moreover, I contributed to **optimizing the BodhiX web application** by enabling multiprocessing, which significantly improved computation times.

## ACADEMIC PROJECTS

### Effect of Covid-19 lockdown on Air

**Sep 2020 – Dec 2020**

Mentor: Prof. Rituparna Sen (ISI, Bangalore)

Analysis of changes in concentration of air pollutants before, during and after Covid-19 lockdown. Given the recorded value of pollutants on a daily basis, we performed hypothesis tests to investigate whether there was any effect of lockdown. Further, we had perceived data of pollution from respondents across the globe and did a comparative study.

Project link: (<https://www.isibang.ac.in/~rsen/Stat1old/3.pdf>)

## CONTACT

LINKEDIN:

<https://www.linkedin.com/in/sai-sandeep-chenna-628ab41a7>

EMAIL:

[saisandeep.mds2023@gmail.com](mailto:saisandeep.mds2023@gmail.com)

## CERTIFICATES

Google Data Analytics  
certificate([LINK](#))

Complete Data Science Bootcamp  
([LINK](#))

Complete Python Pro Bootcamp  
([LINK](#))

Fast typing skills – 67WPM ([LINK](#))

## Multilayer Perceptron classifier from scratch

Jan 2023

Developed a binary classification model to distinguish between Besni and Kecimen raisin using a multilayer perceptron model implemented using only Numpy and Pandas. Achieved a precision of nearly 90% on the test set. The project involved preprocessing data and building the neural network architecture, implementing forward and backpropagation algorithms, and optimizing hyperparameters such as learning rate and number of hidden layers. Project link: ([Mulitlayer Perceptron Model](#))

## ACHIEVEMENTS

### MSQMS(ISI)

2023

All India Rank – 4

Indian Statistical Institute Kolkata and Bangalore Student Fellowship

### BMath(ISI)

2019

All India Rank – 18

Indian Statistical Institute Kolkata and Bangalore Student Fellowship

### JEE Mains and Advanced

2019

All India Rank – 1927 in JEE Advanced and 2143 in JEE Mains

## COURSES TAKEN

### ACADEMIC COURSES

Probability and Statistics

RDBMS

Linear Algebra and Its Applications

Design and Analysis of Algorithms

Data mining and Machine learning

Time series data analysis\*

NLP\*

### NON-ACADEMIC COURSES

The Data Science Course 2022: Complete Data Science  
Bootcamp, Udemy

Statistical methods in python like classification problems, linear regression, cluster analysis, K-means clustering, Basic deep learning etc.

### Google Data Analytics Professional Certificate

About Data, Asking right questions to make Data-Driven decisions, Preparing data for Exploration, process data from dirty to clean, Analyze data to answer questions.