

SAI VENKATA ADITHYA CHALLA

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EDUCATION

University of Southern California, Viterbi School of Engineering

Master's Computer Science (Data Science)

August 2024-May 2026

CGPA- 3.67/4

GITAM University, School of Technology

Bachelor of Technology Computer Science

June 2019-April 2023

CGPA - 9.15/10

TECHNICAL SKILLS

- **Programming Languages:** C, Java, Python, R, HTML, CSS, JavaScript, KQL, Microsoft Azure, React, Node.js
- **Databases:** MySQL, SQL S, MongoDB
- **Data Analysis & Visualization:** Pandas, Matplotlib, Seaborn, Power BI, Excel, Power Automate, Tableau
- **Machine Learning:** scikit-learn, TensorFlow, keras

EXPERIENCE

MAQ Software

Software Engineer

August 2023-June 2024

- Developed a Microsoft Power BI report to track customer-related issues, reducing resolution time significantly, from 1-2 weeks to 2-3 days, by identifying and categorizing over 500+ issues and implementing a solution through Power Automate integration.
- Optimized data pipelines and ETL processes, improving data processing speed and set up staging tables that enhanced data integration and transformation within the Azure ecosystem.
- Gained hands-on experience with the Azure Tech Stack, including Azure SQL, Azure Data Factory, KQL, Databricks and Microsoft Power BI, managing data across these platforms

The Sparks Foundation

July 2021-August 2021

Data Science Intern

- Conducted KPI-driven exploratory data analysis and visualization using Python, analyzing various attributes to uncover key performance trends.
- Managed data cleaning with Power Query, handling datasets with 50,000+ records, and created various pivot tables in Excel to summarize and extract actionable insights.

PROJECTS

Men's T20 World Cup Data Analysis Project

- Performed data cleaning and transformation on the Men's T20 World Cup dataset using Excel's Power Query Editor, ensuring data accuracy and quality.
- Worked on visualization and exploratory data analysis (EDA) using Python, employing libraries like Matplotlib and Seaborn to uncover patterns and trends.

Hybrid Intrusion Detection System

- Applied a correlation-based feature selection algorithm to enhance accuracy in identifying potential attack classes within the dataset.
- Concurrently trained and evaluated the performance using Recurrent Neural Network (RNN) model, and compared them with the machine learning classifiers to achieve better performance.

Rubiks Cube Solver

- Developed a solution using Python and OpenCV to solve the unsolved Rubik's cube puzzle.
- Implemented the Kociemba algorithm to determine a solution within a maximum of 25 steps to easily solve the Rubik's cube.

ADDITIONAL EXPERIENCE

- **Microsoft Learn Student Ambassador:** Collaborated with peers to organize events, conduct webinars, and mentor on Microsoft technologies.
- **Chief Financial Officer at Innovation Center, GITAM:** Served as Chief Financial Officer (2019-2022), managing finances and promoting technical events as Public Relations Officer.
- **USC Hindu Student Organization:** I have actively participated in organizing on-campus events and engaging with a diverse community during the fall semester.
- **USC Graduate Mentor:** Providing support and guidance to students, helping them navigate their journey and assisting incoming students.

CERTIFICATIONS

- Microsoft Azure AI Fundamentals Certification
- Microsoft Fabric Analytics Certification