

# CHARISMA ANANTHARAMAN

Los Angeles, California | (213) 982-9160 | canantha@usc.edu | linkedin.com/in/charanath/ | github.com/charanath

## SKILLS

- Technical skills: Python - Pandas, Sci-kit learn; SQL, Git; Docker; Tableau; MS Office Suite, AWS, R
- Soft Skills: Communication, Teamwork, Problem Solving, Time Management, Analytical and Critical Thinking

## EDUCATION

**University of Southern California**

**Master of Science in Healthcare Data Science**

- Current GPA: 4.0/4.0

Los Angeles, California

August 2024 - May 2026

**Vellore Institute of Technology**

**Bachelor of Technology in Biotechnology**

- Graduated with a CGPA of 8.62/10.00

Vellore, India

July 2019 - June 2023

## EXPERIENCE

**Innoventes Technologies**

**Software Engineer**

- Implemented data modeling algorithms and visualization techniques to demonstrate to the company's clients as a Proof of Concept
- Utilized predictive analytics and assessed performance of algorithms using appropriate metrics
- Implemented model versioning system using traceable tags and efficient APIs

Bangalore, India

October 2023 - June 2024

**Innoventes Technologies**

**Intern**

- Utilized pre-processed data to build models using supervised and unsupervised ML Algorithms
- Gained valuable knowledge in a variety of areas under data science, machine learning, and data analytics and visualization

Bangalore, India

June 2023 - October 2023

## PROJECTS

**Radiation Therapy Treatment Planning Support for Head and Neck Cancer Informatics Similarity Matching Algorithm**

**Evaluation and Phantom-Generated Data Creation**

February 2025 – May 2025

- Class project in Medical Diagnostics, Therapeutics, and Informatics Applications (BME-528). Involved in generating phantom images of Head and Neck CT with known induced dissimilarity will be used to test similarity matching algorithm in a radiation therapy decision support system.
- Implementing the pipeline using MySQL, Python, and Docker.

**Analyzing the Impact of COVID-19 on Music Streaming and Purchasing Behavior:**

April 2025 – May 2025

- Analyzed music consumption trends during COVID-19 by integrating iTunes, Spotify, and pandemic case data
- Identified shifts in genre popularity and subtle changes in audio features using Python, Pandas, and data visualization

**AI-Reinforce MedTech Program – Keck School of Medicine, USC**

January 2025 – Present

- Student researcher working under Dr. Hayoun Lee of Keck School of Medicine.
- Involved in workflow development and sequencing to develop a portable lab system powered by an AI processor to detect pathogenic bacteria in the environment. Currently working on RNA database development.

## EXTRACURRICULAR ACTIVITIES

**Viterbi Impact - USC**

Volunteer

Los Angeles, California

August 2024 – Present

- Volunteering at various events to improve the community and inspire students to engage in STEM education

**Becoming I Foundation - VIT**

Vellore, India

Core Member

December 2020 - March 2022

- Taught underprivileged students of age group 10-14 years Biology and English through online sessions during the pandemic

## CERTIFICATES

- Google's Professional Certification in Data Analytics

- Kaggle Certificate on Introduction to Machine Learning and Introduction to Deep Learning