

CHARISMA ANANTHARAMAN

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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 Los Angeles, California
Master of Science in Healthcare Data Science August 2024 - May 2026

- Current GPA: 4.0/4.0

Vellore Institute of Technology Vellore, India
Bachelor of Technology in Biotechnology July 2019 - June 2023

- Graduated with a CGPA of 8.62/10.00

EXPERIENCE

Innoventes Technologies Bangalore, India
Software Engineer October 2023 - June 2024

- 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

Innoventes Technologies Bangalore, India
Intern June 2023 - October 2023

- 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

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 Los Angeles, California
Volunteer 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