

SRIVINAY TUMMARAKOTA

sst7@rice.edu | 309-472-0722 | [LinkedIn](#)

EDUCATION

Houston, TX

Rice University

August 2019 – May 2023

- **Major:** B.S. in Computer Science (3.97 GPA)
- **Coursework:** Algorithmic Thinking, Probability and Statistics for Data Science, Linear Regression, Computational Thinking, Ethics & Accountability in Computer Science

EMPLOYMENT

Software Engineer, Intern

T-Mobile

May 2021 – Aug 2021

Enterprise Data Solutions

- Implemented the user-interface of an application that generates metrics for machine learning models submitted to T-Mobile's company-wide data science hackathon
- Developed the application back-end by constructing a database with 10 interconnected tables and a Python script capable of evaluating the performance of supervised machine learning models
- Leveraged knowledge in Azure Databricks, Microsoft Power Apps, SQL, machine learning, and database design

Data Scientist, Fellow

National Institutes of Health

Oct 2020 – Dec 2020

Civic Digital Fellowship

- Automated the categorization of aging-relevant research databases with 71 percent accuracy by training a machine learning model on a dataset of research abstracts
- Identified university-level academic programs in aging biology through web scraping hundreds of pages of information curated by Coursicle and the College Board
- Leveraged knowledge in Python, JavaScript, web scraping, natural language processing, and supervised machine learning

Researcher, Intern

Rice University

May 2020-July 2020

Department of Earth Sciences

- Designed a Graphical User Interface (GUI) to run 9 climate modeling scripts by utilizing Python's tkinter and matplotlib libraries
- Leveraged knowledge in Python, HTML/CSS, human-centered design, user-interface design, and data visualization

PROJECTS

Personal Website: <http://vinaytummarakota.com/>

Online Ordering Web Application for Rice University Restaurants (*React, GraphQL, Node*)

- Collaborated in a team of 7 developers, 2 technical leads, 2 product managers, and 1 designer to develop, debug, and maintain an application that enables on-campus restaurants to receive customer orders online
- Implemented 3 key features: (1) processing credit card payments using the Square API (2) enabling restaurants to set the availability of individual menu items (3) generating valid times for customers to pick up their orders

Clustering Analysis of Yeast Genes (*Python*)

- Implemented k-means clustering, soft k-means clustering, and hierarchical clustering algorithms from scratch to categorize yeast genes based on their gene expression patterns

SKILLS

(*Proficient*): Python, SQL, JavaScript, C++, GraphQL, HTML/CSS (*Familiar*): Java, MongoDB