

SUMANA CHILAKAMARRI

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, Georgia

Prospective Masters of Science Analytics: Concentration in Computational Analytics

Jan 2025-Dec 2025

Bachelor of Applied Sciences: Industrial Engineering, Concentration in Analytics and Data Science

Aug 2021-Dec 2024

- 3.95 GPA, Faculty Honors & Dean's List

- Studied abroad for 3 months while extensively traveling Europe, Applied French/Spanish knowledge, Statistics-related course load

Relevant Coursework: Machine Learning, Regression & Forecasting, Data Input/Manipulation, Database Systems, Engineering Optimization, Simulation Analysis, Decision & Data Analytics, Stochastic Manufacturing & Service Systems

EXPERIENCE

DATA & DIGITAL INTERN

The Coca Cola Company

May 2024-Present

Intern with Data & Analytics Enablement Team at The Coca Cola Company

- **Convert** Excel reporting system into various PowerBI dashboards, **enhancing data visualization** and efficiency by 30%
- Document and optimize user journey for analytics tools, leading to 15% **increase in user satisfaction**
- **Map data sources** to Excel/PowerBI to translate business needs into data-driven insights to align with company processes

ISYE 2027 TEACHER ASSISTANT

Atlanta, GA

Georgia Tech ISyE Department

May 2022-Present

Teaching Assistant for ISyE 2027: Probability with Applications

- Assist 65+ students in mastering course material through biweekly office hours and collaborative review sessions
- Collaborate with course professor to create/grade exams, ensuring consistency in students' understanding of concepts.

CASE SUCCESS & ACADEMICS STUDENT EXECUTIVE

Atlanta, GA

Georgia Tech

May 2022-December 2022

Worked as a CASE (Center of Academics, Success, and Equity) Student Executive

- Managed ISyE tutoring center at Georgia Tech by communicating with 50+ Teaching Assistants and PhD students to create a schedule for students in the department to get help in their respective classes
- Supported Georgia Tech's MentIE program by assisting in organizing events to introduce ISyE students to industry mentors

PROJECTS & RELATED WORK

VIP: HEALTH INFORMATICS USING FHIR

January 2023-Present

- Worked with MaxMD and the CDC to **develop** an app to track patient information such as allergies/intolerances
- Used existing HAPI-FHIR starter project; tested API calls, and converted CSV data to FHIR resources in JavaScript
- Scoring SDoH into relevant patient metrics; developing use cases, user stories, and survey research
- Deployed user interface using React, JavaScript, and CSS

EMERGENCY RESPONSE TIMES IN NYC BOROUGHES: DATA ANALYSIS

August 2022-December 2022

- **Analyzed relationship** between a NYC borough's economic wealth and emergency medical services using Python
- Employed R, Python visualization libraries, and SQL to create insights and supporting data visualizations
- Created insights based on cleaned data set using API, .json file, and .csv files; made data visualizations for analysis

SPOTIFY'S 20-21 HITS: ANALYZING KEY FEATURES OF TOP SONGS

January 2024-May 2024

- Applied Machine Learning concepts such as PCA for dimensionality reduction and K-means clustering to group songs based on audio features like danceability, energy, and tempo
- Utilized kernelized SVM to classify songs as popular or not, uncovering key factors that drive hit tracks
- Provided actionable insights into genre classification and factors contributing to song popularity using Python and R

LEADERSHIP

IISE EXECUTIVE BOARD MEMBER: PROFESSIONAL DEVELOPMENT

Atlanta, GA

Georgia Tech Institute of Industrial & Systems Engineers (IISE) Chapter

October 2023-Present

- Assist in organizing highly successful ISyE Career Fair resulting with turnout of 600+ students and 60+ companies
- Strategize ways to increase student turnout and engagement in career-oriented workshops & informational sessions

ADDITIONAL INFORMATION

Technical Skills: Python, R, SQL (MySQL), SAS, MiniTab, Microsoft OS, Microsoft Excel, Tableau, Gurobi, Jupyter Notebook, Simio, Microsoft Azure knowledge, PowerBI, DAX, Microsoft PowerApps, React, CSS

Certifications: Microsoft Office Specialist Word (2016), Introduction to Computing: Python (2022), Microsoft PowerApps

Other Experience: American Red Cross, SEWA and VT Seva Volunteer, Data Science Georgia Tech & Big Data Big Impact member, ATL Tanishq Production Team member