

VAISHNAVI VENKATARAGHAVAN

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Education

University of Michigan - Ann Arbor

Masters of Science in Information - Data Science Track

GPA: 4.0 | May 2026 (Expected)

Ann Arbor, Michigan

Vellore Institute of Technology

Bachelor of Technology in Electronics and Computer Engineering

May 2022

Chennai, India

Relevant Coursework

- Data Analytics
- Linear Algebra
- Machine Learning
- Cloud Computing
- Database Management
- Computer Architecture
- Design Prototyping
- User Experience

Skills

Programming Languages: Python, R, SQL, DAX, M Query, HTML/CSS, JavaScript

Developer Tools: VS Code, Power BI, Salesforce, Incontact, Snowflake, Power Automate, Google Cloud Platform

Professional Experience

Amazon Web Services (AWS)

May 2025 – August 2025 (Expected)

Incoming Solutions Architect Intern

Austin, Texas

- Will develop technical solutions that address customer business problems and accelerate the adoption of AWS services

Anheuser-Busch InBev GCC

July 2022 – July 2024

Principal Analyst/ Junior BI Developer

Chennai, India

- Developed visualizations and reported business-critical data on beer production and customer satisfaction for the company's North American Zone. Built Power BI reports with diverse datasets housed in different Cloud Platforms (Salesforce, Incontact, Snowflake) and increased data visibility for existing reports up to 950%.
- Reduced 3 hours of daily manual labour by extracting data from real-time APIs, mitigating routine data downloads.

Venba Tech

January 2022 – May 2022

Data Analyst Intern

Chennai, India

- Utilized SSD with MobileNet architecture and OpenCV to monitor foot traffic for buildings through CCTV feed.
- Identified cost-efficient methods to build GCP dataflows and ETL pipelines for Building Management Systems (BMS), saving hundreds of dollars monthly for buildings owned by Fortune 100 clients, including Google's SAR3

Academic Projects

Analyzing Health and Poverty in US | *SI 618—University of Michigan* | [GitHub](#) (In Progress)

Apr 2025

- Merged CDC PLACES and ACS Census data for 40 health metrics and 4 poverty measures for US State and County population percentages to answer questions based on Health Outcomes, Risk Behaviors, and Racial Income Disparity
- Conducted OLS Regression, and performed ANOVA, and Chi-Squared tests to extract significant findings from few key health outcomes and risk behaviors (ie. Cancer, Binge-Drinking)
- Visualized state-wise differences with Agglomerative Clustering, and county-wise with K-Means Clustering.

US County Health Similarity Network | *SI 507—University of Michigan* | [GitHub](#) | [Website](#)

Apr 2025

- Created an interactive Streamlit application that treats counties as nodes in a cosine similarity network
- Utilized BFS to determine paths between any two counties and gave detailed descriptions of shared metrics.
- Identified prime network hubs with degree centrality and setup interactive maps with Folium

A/V Translation in Indian Languages | *Capstone—Vellore Institute of Technology, Chennai* | [GitHub](#)

May 2022

- Implemented an automated audiovisual translation and dubbing application using Wav2Lip's pretrained GAN model.
- Transcribed English speech in input videos using ASR models, translated speech into various Indian languages, and synthesized Indic speech using TTS algorithms
- Evaluated performance using novel LSE metrics proposed by Wav2Lip's paper using a lip-sync discriminator (SyncNet) on generated videos translated into two Indian languages: Tamil and Hindi

Activities

Founding Member, GirlUp VITC

December 2020 – July 2021

Vellore Institute of Technology, Chennai

Accomplishments

Runner-Up, AB InBev Maverick Hackathon

April 2021 – May 2021

Anheuser-Busch InBev GCC, India

Finalist, Toycathon 2021

February 2021 – May 2022

Inter-Ministerial Initiative, India