M Karuna Shree

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Education

VIT Bhopal University   Bhopal, Madhya Pradesh
Bachelor of Technology   October 2022 - Expected 2026
Computer Science and Engineering with specialization in E-Commerce
Cumulative GPA: 9.12/10

Technical Skills

Languages & Frameworks: Java, Python, MySQL, HTML, CSS3, JavaScript
Tools: Power BI, Tableau, MS Excel, Apache Airflow.
Libraries & Frameworks: Pandas, NumPy, Scikit-learn, Tweepy,
Specializations: Data Analytics, Data Visualization, Web Development

Projects

Fashionably Yours: Fashion Analytics Project
- Developed and implemented a web-scraping script using Python to autonomously collect thousands of data points on seasonal trends, ensuring data quality and consistency.
- Modeled the correlation between specific seasonal trends (e.g., shifts to neutral color palettes, minimalist designs) and historical economic downturns, identifying patterns that have re-emerged during previous recessionary periods.
- Predicted potential economic shifts by cross-referencing real-time trend data with established macroeconomic indicators, generating insights into consumer sentiment and market behavior.

Technology stack: Python, Beautiful Soup, Pandas, Scikit-learn, Jupyter Notebook

WeatherView: Weather Visualization Website
- Architected and developed a comprehensive real-time global weather visualization platform that transforms complex meteorological data from supercomputers into intuitive, animated interactive maps, serving millions of users worldwide with current wind, weather, ocean, and pollution conditions.
- Built data processing pipelines consuming GRIB2 weather files, processing 300+ meteorological records to visualize wind patterns, temperature, and atmospheric pressure; Optimized geospatial data processing using GDAL and TopoJSON, achieving 70% faster map rendering performance.

Technology stack: HTML5, CSS3, JavaScript, D3.js, WebGL, Python (Data Analytics)

TweetStream: An Airflow-Powered Data River.
- Engineered an automated data pipeline to collect, transform, and store real-time data from the Twitter API. Developed and implemented a web-scraping script using Python and the Tweepy library to autonomously extract and collect thousands of data points from the Twitter API.
- Designed and orchestrated a Directed Acyclic Graph (DAG) in Apache Airflow to manage the sequence of tasks, ensuring a reliable and efficient workflow. Utilized Pandas to clean, transform, and structure the raw Twitter data, preparing it for downstream analysis.

Technology stack: Python, Tweepy, Pandas, Apache Airflow, Jupyter Notebook, Amazon Web Services (AWS) - EC2, S3

Extracurricular

E-Commerce Club, VIT Bhopal   January 2023 - June 2025
President
- Led a dynamic student organization of 250+ active members focused on digital commerce education and industry awareness; aligned cross-functional teams of 20+ members across marketing, content, events, and partnerships divisions.

Insights Club, VIT Bhopal   December 2022 - June 2025
Editor-in-chief
- Published 14 monthly newsletters and a comprehensive yearly magazine, reaching an audience of 5,000+ students, faculty, and industry professionals; managed diverse teams with 60+ writers, designers, and contributors.

Additional

Languages: Hindi, English, and Tamil.
Certifications: Data Engineering Foundations by AWS, Data Analytics for students by LinkedIn.