

Sanchari Sadhukhan

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EDUCATION

University of Massachusetts Amherst

Amherst, MA

Master of Science in Business Analytics Candidate

August 2025 - Present

Cumulative GPA 4.0/4.0

Coursework: Statistics for Business, Python for Business, Database Management Systems, AI for Business

Vellore Institute of Technology

Vellore, India

Bachelor's in Computer Science with Business Systems

July 2019 - July 2023

Cumulative GPA 8.2/10.0

Coursework: Data Science, Statistical Analysis, Business Mathematics, Marketing, Finance

EXPERIENCE

PepsiCo GBS

Hyderabad, India

Data Analyst

August 2023 - August 2025

- Designed and deployed scalable data ingestion pipelines in **Databricks** using **SQL** and **Python**, **improving runtime efficiency by 30%** through partitioning and caching strategies.
- Automated CI/CD workflows in **Azure DevOps**, **reducing release cycle time by 25%** in less than 3 months.
- Implemented data quality checks in **PySpark**, **automating 40% of validations** within 6 months.
- Created **Excel Macros with VBA**, **reducing manual effort by 70%** over a 4-month period.

PROJECTS

Sahayata

- Developed a full-stack web application using **React.js**, **Node.js**, and **MySQL** that digitizes self-help groups, connecting **500+ users** across **50+ groups**.
- Applied the **K-Nearest Neighbor algorithm** for personalized recommendations, achieving a **20% increase in engagement**.

Centralized Information System

- Built a course aggregation platform using **Python Flask** and **PostgreSQL**, serving **200+ students** and **reducing search time by 15%**.
- Implemented **Doc2Vec** algorithm for intelligent course recommendations.

CollegeBuddy

- Developed a mobile app using **React Native** with **95% code reuse**, serving **300+ active users**.
- Built backend with **Node.js**, **Express.js**, and **MongoDB**, implementing RESTful API with JWT authentication.

PUBLICATIONS

Sai Sri Rekha K, Suhani M, Sanchari S & Jaydev J. (2022). Student Stress Prediction Using Machine Learning. *NeuroQuantology* 2022;20(14):895-906.

ACTIVITIES

IEEE-IAS, Secretary

Sept 2021 - December 2022

Optimized operations while driving technical events and hackathons that expanded community engagement.

LEO NGO, Editorial Head

August 2021 - April 2023

Spearheaded editorial strategy and content review for monthly publications reaching 1000+ readers.

SKILLS

Programming & Scripting: Python, R, SQL, VBA, C, C++, JavaScript

Data Visualization & BI: PowerBI, Tableau, Excel (Advanced), Matplotlib, Plotly, Power Query

Cloud & Big Data: Azure (DevOps, Databricks, Data Factory), AWS (S3, Lambda), PySpark, Apache Spark

Databases: PostgreSQL, MySQL, MongoDB, SQL Server

Machine Learning & Analytics: Pandas, NumPy, Statistical Analysis, A/B Testing, Regression, NLP

Web & Tools: React.js, Node.js, Express.js, Flask, Git, Docker, ETL, Agile/Scrum.