

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
<i>Data Analyst</i>	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.