

SAI SANJAY POTLURI

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EDUCATION

Kennesaw State University (CGPA: 3.5)

Master of Science in Computer Science

Atlanta, GA

Jul 2025(expected)

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Web Development, Database Systems, Machine learning, SQL

Jawaharlal Nehru Technological University

Bachelor of Technology in Electronics and Communication Engineering.

Hyderabad, Telangana, India

Aug 2022

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, HTML, CSS, C++

Developer Tools: Ms Excel, Tableau, Git, Docker, VS Code, IntelliJ, Eclipse,

Frameworks & Libraries: pandas, NumPy, TensorFlow, React, PyTorch

Concepts: Data visualization, Time-Series Analysis, Process Optimization, Statistical Analysis, RESTful APIs, Agile Methodologies, Business Analysis, KPI Tracking

EXPERIENCE

Graduate Research Assistant

Kennesaw State University

Aug 2024 – present

Atlanta, GA

- Created a simulated Human-AI teaming concept helping AI to make better and more concise results
- Developed an algorithm to integrate outputs from 3+ LLMs, improving response accuracy by 15%.
- Utilized Python, PyTorch, and Transformers for data processing and analysis of complex datasets.
- Evaluated and presented research findings to project stakeholders, demonstrating ability to communicate complex information effectively.

Associate Professional Software Engineer

DXC Technologies

Feb 2023 – Aug 2023

Hyderabad, India

- Synthesized and maintained ATM applications using IBM mainframe technologies: COBOL, JCL, IMS-DC, and IMS-DB
- Monitored performance of 100+ jobs and debugged errors, ensuring 99.9% of system uptime.
- Collaborated with 3 cross-functional teams, improving application efficiency by 25%.

Data Science Intern

TwiLearn Ed Tech Pvt. Ltd

Dec 2022 - Jan 2023

Hyderabad, India

- Collected, transformed, and analyzed 6+ years of sales data using Python libraries (Pandas, NumPy) to drive informed decision-making.
- Visualized 5 Tableau dashboards to visualize sales trends over a decade, enabling data-driven insights and improving decision-making by 15%.
- Compiled 3 key KPIs for profit, units sold, and category-based profits, supporting 5 critical business decisions.
- Summarized complex data insights to non-technical stakeholders, demonstrating strong oral and written communication skills.

PROJECTS

Heart Disease Diagnostics | Python, NumPy, Pandas

Oct 2022 - Dec 2022

- Processed and analyzed a dataset of 1,000+ patient records, examining 10 vital health statistics.
- Integrated descriptive and inferential statistical tests, including T-tests, ANOVA, and Linear Regression.
- Visualized 5 data visualizations to highlight trends and correlations, improving pattern recognition efficiency by 40%.

Shopping Cart | *C#, HTML, CSS, JavaScript, SQL*

Apr 2024 – May 2024

- Designed and implemented a database system managing 500+ car parts across 10 categories.
- Scripted SQL queries for data extraction and analysis to support business decision-making.
- Automated reports for sales trends and inventory management, demonstrating ability to design rigorous methods of analysis.

Home Automation | *Python, HTML, CSS, Arduino UNO*

Nov 2021 - Jan 2022

- Modeled a responsive web interface using HTML and CSS for controlling home automation devices.
- Integrated frontend with Arduino-based backend for real-time device control.
- Demonstrated ability to work on full-stack projects involving both hardware and software components.

SAM: A Smart Assistant | *Python, speech_recognition, pyttsx3, pywhatkit, pyjokes*

Mar 2022 – May 2022

- Built a Python-based virtual assistant with a user-friendly interface for voice command processing.
- Incorporated external APIs for features like YouTube playback and Wikipedia information retrieval.
- Implemented error handling for robust performance in various usage scenarios.

Airline Management System | *COBOL, JCL, IMS-DB, IMS-DC*

Feb 2023 – Apr 2023

- Engineered a control logic in COBOL to calculate passenger discounts based on various input criteria.
- Utilized JCL, IMS-DB, and IMS-DC for database management and transaction processing in a mainframe environment.
- Collaborated with a team of five to debug, test, and deploy the airline management system on a remote mainframe.

PROFESSIONAL SUMMARY OF SKILLS

- Experienced with **Tableau, SQL, and Excel** in real-world and academic settings.
- Skilled in **KPI tracking**, trend identification, and hypothesis testing.
- Effective communicator: regularly translate complex findings into actionable insights.
- Demonstrated intellectual curiosity and independent problem-solving ability.
- Eligible as a **Junior/Senior level student** with a GPA **above 3.25**.
- Strong attention to detail in system monitoring and error resolution.
- Advanced MS Office proficiency, especially Excel for large-scale data tracking and reports.
- Excellent communication and stakeholder engagement experience.
- Demonstrated adaptability across industries (finance, education, tech).
- Strong foundation in analytical problem-solving, risk control, and end-to-end operations management.

DIVERSITY AND INCLUSION

Aligned with inclusive values — proven success working with diverse teams across India and the U.S., adapting in cross-cultural environments.

Portfolio website: <https://saisanjaypotluri.github.io/>