SPANDAN ROY

Computer Science and Engineering Student | **Backend and Software Development**

+91 8371814875 spandanr098@gmail.com spandan-roy matrixminer07

VIT-AP University, Amaravati



PROFESSIONAL SUMMARY

Computer Science and Engineering student specializing in Data Analytics at VIT-AP University with foundational knowledge of software development, backend development, DBMS, computer networks, Java, Python, SQL, and Data Structures and Algorithms. Developed project concepts focused on AI-assisted pharmaceutical risk analysis and marine anomaly detection. Seeking software development internships, backend SDE roles, and campus placement opportunities.

EDUCATION

VIT-AP University — Bachelor of Technology in Computer Science and Engineering (Data Analytics) **Expected Graduation: 2029**

Cumulative GPA: 7.74 / 10 • Amaravati, Andhra Pradesh

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, SQL

Backend Development: Node.js, Express.js, RESTful APIs

Core Computer Science: Data Structures & Algorithms, Computer Networks, TCP/IP, HTTP/HTTPS

Frontend: HTML5, CSS3, JavaScript (ES6+), React.js, Tailwind CSS

Databases & Systems: MySQL, MongoDB, DBMS

Tools & Platforms: Git, GitHub, VS Code, Google Gemini AI, Prompt Engineering

KEY PROJECTS

NexaCliniQ — AI-Powered Pharmaceutical Risk Prediction & Strategic Decision Platform **Project Concept & Architecture**

- Developed a comprehensive project concept for pharmaceutical risk prediction and strategic decision support.
- Focused on real-time analytics and scenario planning for data-informed clinical decisions and risk mitigation.
- Applied AI-assisted analysis principles to pharmaceutical strategy, pipeline tracking, and predictive evaluation.

Sonarix — AI-Assisted Marine Debris and Anomaly Detection **Project Concept & Architecture**

- Formulated a conceptual system for identifying marine debris and unknown anomalies in side-scan sonar imagery.
- Engineered detection workflow models to reduce manual image-review effort and prioritize environmental cleanup.
- Designed modular pipeline for seamless integration with survey operators, research teams, and AUV planners.

LEADERSHIP & CAMPUS ACTIVITIES

Core Committee Member | **Microsoft Student Chapter (MSC) Club** VIT-AP University

- Organized technical workshops, bootcamps, and hackathons for a community of 500+ student developers.
- Conducted peer-led training on web development fundamentals, modern APIs, and cloud integrations.
- Coordinated event logistics, speaker sessions, and technology requirements with cross-functional club teams.

CERTIFICATIONS & ACHIEVEMENTS

Certifications

- Python Certification (HackerRank)
- SQL Certification (HackerRank)
- MATLAB Certification
- Google Gemini Academy

Achievements

★ **Hackathon Winner (1×)**

Recognized for rapid prototyping and software problem solving.

Verified credentials & code repositories available on GitHub