

SANJANA R

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PROFILE SUMMARY

Final-year Computer Science student skilled in Python, machine learning, and data visualization. Experienced through real-world Forage simulations and academic projects, with a strong interest in AI, data science, and software engineering roles.

EDUCATION

BE in Computer Science and Engineering
RNS Institute of Technology

Sept 2022 – Aug 2026

TECHNICAL SKILLS

- **Languages:** Python, Java, C, HTML/CSS, JavaScript, SQL
- **Developer Tools:** VS Code, Eclipse, Google Cloud Platform, Jupyter Notebook, Android Studio, Google Colab
- **Technologies/Frameworks:** Flutter, Dart, Streamlit, MySQL, MongoDB, Power BI, Tableau
- **AI Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

VIRTUAL EXPERIENCE / ONLINE JOB SIMULATION

BCG GenAI Job Simulation (Forage) July 2025

- Built an AI-powered financial chatbot using Python and rule-based logic to interpret 10-K and 10-Q filings.
- Utilized pandas for financial data parsing and transformation.
- Delivered a user-friendly interface that simplified complex financial insights for non-technical users.

JPMorgan Chase & Co. Quantitative Research Virtual Experience Program (Forage) July 2025

- Applied statistical modeling to estimate default probabilities from loan data. July 2025
- Implemented dynamic programming to categorize FICO scores for input into predictive models, enhancing credit risk analysis accuracy.

BCG Data Science Job Simulation (Forage) Jun 2025

- Led a customer churn analysis project using Python, Pandas, and NumPy, identifying key drivers of churn.
- Engineered and optimized a Random Forest model with a 50% recall rate.
- Visualized key trends and presented insights through a concise executive summary to guide strategic decisions.

Deloitte Australia Data Analytics Job Simulation (Forage) Apr 2025

Accenture Nordics Software Engineering Simulation (Forage) Mar 2025

Tata Global Data Visualization: Empowering Business with Effective Insights Completion Certificate Mar 2025

PROJECT EXPERIENCE

CipherX: Cybersecurity App Using ML | Flutter, Python, ML(Random Forest), Static & Dynamic Analysis Current

- Developed an Android app that detects APK vulnerabilities using realtime analysis.
- Achieved 80% accuracy in anomaly detection and generated explainable security reports.

Implementation paper on cybersecurity with AI, to be published, in IEEE.

MedOracle– A Medical Chatbot | Python, StearmLit, NLP(SpaCy), KNN, MongoDB, Google Cloud Dec 2024

- Built a multilingual AI chatbot to answer medical queries using NLP and machine learning.
- Integrated voice input and chat history storage using MongoDB and Streamlit.
- Achieved accurate intent recognition across 3+ languages.

Online Antique Bidding System | MERN Stack, HTML, CSS, Javascript Sept 2024

- Built dynamic MERN stack web platform for real-time bidding and secure transactions. Features user authentication, advanced search, and live auction tools.

Amazon Sales Data Analysis | Power BI, Python, SQL Feb 2024

- Analyzed Amazon sales data to uncover revenue trends and key performance indicators using Python and SQL.
- Designed interactive Power BI dashboards for real-time visualization and data-driven decision-making.

CERTIFICATIONS

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|---------------------------|----------------------|------------------------|----------------------|
| • Artificial Intelligence | • Data Visualization | • Cloud Programming | • DSA |
| • Machine Learning | • PowerBI, Tableau | • Programming Language | • NLP |
| • DBMS, SQL | • GenaAI | • Full Stack | • Prompt Engineering |