

# TANISHA SATRUJEET DEY

Information Science Undergrad / AI and Software Engineering Enthusiast

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## PROFESSIONAL SUMMARY

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- Dynamic engineering student with a **9.43 CGPA** and ranked in the **top 2%** nationally in NPTEL's Data Science certification, demonstrating strong analytical and academic excellence.
- Successfully led **IEEE Women in Engineering (WIE)** as **Chair**, organizing high-impact STEM outreach, technical events, and innovation programs.
- Served as **Joint Director of Finance** at **Rotaract RVCE**, managing budgets and financial planning for multiple service initiatives and events.
- Engineered **AI and IoT-driven solutions**, including a hybrid network intrusion detection system and a real-time health monitoring platform, showcasing hands-on technical proficiency.

## EDUCATION

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<b>RV College of Engineering</b> B.E. in Information Science and Engineering	Bangalore, Karnataka	Sept 2023 – Aug 2027 <i>CGPA: 9.43</i>
<b>RV PU College</b> Science, PCMC Stream	Bangalore, Karnataka	June 2021 – March 2023 <i>Percentage: 96.67%</i>
<b>St. Paul's English School</b> High School	Bangalore, Karnataka	June 2011 – March 2021 <i>Percentage: 97%</i>

## TECHNICAL SKILLS

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**Programming Languages and Technologies:** C, C++, Python, HTML, CSS, JavaScript, Streamlit, Ollama, TensorFlow, Pandas, NumPy, MySQL, MongoDB, Power BI, Matplotlib

**Tools and Platforms:** Git, GitHub, ThingSpeak, Microsoft Office (Word, Excel, PowerPoint), Canva, Figma

## PROJECTS

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### Hybrid Network Intrusion Detection System

Python, Scikit-learn

- Engineered a hybrid anomaly detection model for cybersecurity, combining Random Forest and Isolation Forest to flag malicious network traffic with a high accuracy of **98%**.
- Emphasized problem solving and data analysis by building a user interface for real-time CSV uploads, risk classification, and anomaly insights.

### IoT-Based Health Monitoring System

Arduino IDE, ThingSpeak

- Developed an innovative, real-time, cloud-integrated IoT solution to track **5+ vitals** like temperature, ECG, humidity, and heart rate using Arduino sensors.
- Leveraged scalable infrastructure and machine learning logic to assess anomalies and deliver health insights through cloud computing dashboards.

### AI Tutor Web App

Python, Streamlit, Ollama

- Built an AI-powered educational assistant capable of summarizing academic PDFs, answering subject-specific queries, and generating quizzes aligned with Bloom's taxonomy.
- Demonstrated innovation and strategic thinking by integrating a real-time chatbot for student collaboration and adaptability.

## AWARDS

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### Academic Excellence Award

RV PU College

Recognized as a "Significant Achiever" for academic distinction in STEM examinations conducted by government-authorized bodies. Demonstrating consistent excellence, strategic thinking, and analytical capabilities.

Aug 2023

## LEADERSHIP AND SOCIETIES

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### IEEE – Women in Engineering

*Chair*

RVCE, Bangalore

Jan 2025 – Present

Spearheaded initiatives to empower women in STEM through mentorship programs, workshops, and leadership talks. Organized innovation-driven events and coordinated community outreach programs with over **150+ participants** focused on education and inclusion. Collaborated with **10+ faculty** and industry experts to foster professional growth and expand networking opportunities.

### Rotaract Club of RVCE

*Joint Director - Finance*

RVCE, Bangalore

July 2025 – Present

Coordinated large-scale leadership and civic engagement initiatives, securing **Rs. 10,000+** in sponsorships and managing **30+** cross-functional team members. Demonstrated strategic thinking, collaboration, and operational execution in a fast-paced environment.

## CORE COMPETENCIES

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|----------------------|-------------------------------|-----------------------|-----------------|
| ✓ Problem Solving    | ✓ Scalable Systems Design     | ✓ Collaboration       | ✓ Teamwork      |
| ✓ Strategic Thinking | ✓ Data-Driven Decision Making | ✓ Analytical Thinking | ✓ Communication |
| ✓ Innovation         |                               | ✓ Leadership          | ✓ Adaptability  |

## CERTIFICATIONS

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### NPTEL – Data Science for Engineers

IIT Madras

Earned an **Elite + Gold Certification** with a score of **90%**, ranking in the **top 2%** nationally. Gained in-depth knowledge of the fundamentals of data science, data analysis, big data processing, machine learning algorithms, and analytical techniques used in scalable systems.

Apr 2025

### IEEE Awareness Module on AI Ethics

IEEE

Completed a foundational course on building trustworthy AI systems for risk management and compliance. Covered ethical innovation, responsible cyber security awareness, and transparency for large-scale intelligent systems.

Mar 2025

### Universal Human Values (UHV)

Reliance Foundation

Developed interpersonal adaptability and collaborative leadership through human-centered learning. Explored ethical reasoning, harmony in systems, and values essential for responsible, sustainable, and innovation-driven growth.

Apr 2025