TANISHA SATRUJEET DEY

Information Science Undergrad / AI and Software Engineering Enthusiast

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PROFESSIONAL SUMMARY

- Dynamic engineering student with a **9.36 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

RV College of Engineering	Bangalore, Karnataka	Sept 2023 – Aug 2027
B.E. in Information Science and Engineering		*CGPA: 9.36*
RV PU College	Bangalore, Karnataka	June 2021 – March 2023
Science, PCMC Stream		*Percentage: 96.67%*
St. Paul's English School	Bangalore, Karnataka	June 2011 – March 2021
High School		*Percentage: 97%*

TECHNICAL SKILLS

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

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

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

IEEE – Women in Engineering   RVCE, Bangalore
Chair   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   RVCE, Bangalore
Joint Director - Finance   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

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

Certifications

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