SOUVIK RANA

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EDUCATION

Bachelor of Technology in **Electronics and Communication Engineering**	**October 2021 – June 2025**
Academy of Technology, Hooghly, West Bengal	**CGPA: 8.23 / 10.00**
Higher Secondary (WBCHSE)	**August 2019 – July 2021**
Springdale High School, Kalyani, West Bengal	**Percentage: 85%**
Secondary (WBBSE)	**January 2018 - May 2019**
Springdale High School, Kalyani, West Bengal	**Percentage: 81.29%**

SKILLS

Programming & Web Development: C, C++, Java, Python, Git, HTML, CSS, JavaScript, Next.js, React.js, MongoDB, Appwrite, Streamlit, SQL.
Data Science & Tools: Jupyter Notebook, pandas, NumPy, scikit-learn
Industry Software: CST Microwave Studio, MATLAB, OCTAVE, FreeCAD, EAGLE, Microsoft Office
Soft Skills: Leadership, Teamwork, Growth Oriented, Performance Focused

PROJECTS

1. **WellBee: Healthcare Patient Management Application** ⎘
   - ❖ Developed a Next.js healthcare application with real-time notifications and data dashboards, streamlining appointment booking and management—reducing processing time by 40% and missed appointments by 25%, while enhancing user engagement and provider decision-making.

2. **THE WATCH LIST: Movie Recommendation System** ⎘
   - ❖ Developed a hybrid movie recommendation system using content-based and collaborative filtering with cosine similarity, and built a full-stack web app using Python, Flask, Streamlit, HTML/CSS, and the TMDb API, leveraging pandas, NumPy, scikit-learn, and Jupyter Notebook for data processing and rapid prototyping.

3. **Souvik Rana's Portfolio Website** ⎘
   - ❖ Designed and launched a personal portfolio website with responsive design and SEO optimization, effectively showcasing skills and projects—leading to a 50% increase in professional inquiries and improved visibility across devices and search engines.

4. **Broadband Wearable Antenna using IoT and Medical Applications** ⎘
   - ❖ Developing a broadband wearable antenna covering frequencies from (3.5 to 18 GHz), projected to improve health monitoring accuracy by 20%.

5. **Touch-Based Intrusion Detection System using Arduino**
   - ❖ Engineered a system with a capacitive touch sensor and Arduino UNO, achieving 95% accuracy in detecting intrusion events and displaying alerts on a 16×2 LCD.

WORK EXPERIENCE

Salesforce Developer Intern -- SmartBridge & Persistent ⎘   **July 2024 – August 2024**
Trailhead Profile: salesforce.com/trailblazer/souvikrana ⎘
   - ❖ Spearheaded Salesforce application customization by implementing workflows, data integration, and reporting features—enhancing user experience, streamlining CRM processes, reducing sales team data entry time by 30%, and boosting operational efficiency by 20%.

CERTIFICATIONS & POSITION OF RESPONSIBILITY

❖ **Professional Certificate on Cybersecurity – Google** ⎘	**November 2024**
❖ **Machine Learning Specialization – Stanford University & DeepLearning.AI** ⎘	**November 2024**
❖ **Full Stack Java Dev: JAVA + JSP + SPRING + BOOT + JS + REACT – Udemy** ⎘	**November 2024**
❖ **TalentNext course on Java Full Stack – Wipro** ⎘	**October 2024**
❖ **Geodata Processing using Python -- ISRO** ⎘	**January 2024**
❖ **Organizer, Techfest & Humatronics -- Academy of Technology** ⎘	**January 2024**
❖ **Hands-on Introduction to Internet of Things with Machine Learning -- IIT Kharagpur** ⎘	**December 2023**