

# Srijani Dey

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Versatile Electronics & Communication Engineering graduate with expertise in **software development, embedded systems, cloud & IoT, and databases**. AWS certified in Cloud, IoT, and AI/ML with hands-on experience in full-stack development, machine learning, and hardware prototyping. Seeking opportunities in software engineering, IoT development, or cloud-based embedded systems roles.

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## Education

**St. Thomas College of Engineering & Technology** — *Kolkata, West Bengal*

Bachelor of Technology in Electronics & Communication Engineering | CGPA: 7.76 | Aug 2022 – Jun 2026

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## Certifications & Achievements

- **AWS Certified AI/ML Practitioner** – Amazon Web Services, [Pending]
  - **AWS Certified Cloud Practitioner** – Amazon Web Services, 2025
  - **AWS IoT Foundations** – Amazon Web Services, 2025
  - **Smart India Hackathon, 2023**
  - **Solar Energy:** Workshop on Innovative Utilization & Application, 2025
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## Projects

- **Pizza Sales Analysis** | MySQL, SQL, MS Excel | [GitHub](#)  
Analyzed **48620 customer** records of **over 12 months** to identify revenue trends, peak hours, and top-selling items, driving profitability insights through database querying and optimization.
  - **Diabetes Prediction Model** | Python, Scikit-learn, Pandas | [GitHub](#)  
Built **SVM classifier** achieving **79% accuracy**, exceeding baseline **logistic regression (71%)** for diabetes prediction; implemented data preprocessing, feature scaling, and model evaluation.
  - **API integrated PDF RAG** | Next.js, Node.js JavaScript Gemini API, LangChain, PDF Parsing, REST APIs | [GitHub](#)  
AI-Powered PDF Assistant: Built **with Next.js** and integrated with **Gemini API** to analyse, summarize, and interact with PDF content. Demonstrates **secure API key usage**, asynchronous data processing, and responsive user interface in a production-ready app.
  - **Simon Memory Game** | HTML5, CSS3, JavaScript | [GitHub](#)  
Developed responsive web game with progressive difficulty logic, animations, and real-time user validation; deployed on GitHub Pages.
  - **Cloud based Agricultural IoT** | ESP32, AWS IoT Core, Lambda, DynamoDB, MQTT, DHT11 | [GitHub](#)  
A **serverless** IoT data pipeline using ESP32 to publish **real-time** temperature, humidity and soil humidity data to AWS IoT Core, triggering AWS Lambda for processing. Designed an event-driven cloud architecture to persist sensor data in DynamoDB, demonstrating scalability, low latency, and cloud-native IoT integration.
  - **Smart Automation & Security System** | Arduino, Sensors (PIN Diode, Hall-Effect), OLED Display, Embedded C  
Built an integrated automation system for **fire detection and intrusion monitoring**, combining sensor-based safety logic with real-time alerts via buzzer and OLED display. Reduced fire detection **false positives from 40% to 12%** using temperature-based confirmation, demonstrating effective sensor validation, embedded C programming, and system optimization.
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## Technical Skills

- **Programming:** Python, JavaScript, C/C++, CSS3, React.js, Node.js, Next.js
  - **ML & Data Science:** Scikit-learn, Pandas, NumPy, Linear Regression, SVM, NLTK
  - **Embedded Systems & IoT:** ESP32, Arduino, Sensor Interfacing, IoT, MQTT
  - **Cloud:** AWS, Azure
  - **Database:** MySQL, MongoDB
  - **Tools:** Git, GitHub, VS Code, MATLAB
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## Experience & Training

- **BSNL Telecom Training Institute:** One-month hands-on training **Telecommunication and Network** infrastructure
  - **JPMorgan Chase & Co.** – Virtual simulation on **Software Engineering**.
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## Interests

Solving coding challenges, IoT & robotics prototyping, exploring AI/ML innovations, digital art.