Sonu Kumar

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Career Objective

"Aspiring Engineer with expertise in Python, C++, IoT, and PLC programming. Passionate about automation, software development, and data analytics. Seeking a role where I can apply my technical knowledge in industrial automation, AI, and smart systems."

Education Details

Course	Name of Institution/Board/University	Year of Passing	Percentage/CGPA
B.Tech (Electrical engineering)	Netaji subhash engineering college,Kolkata	2025	Current CGPA:7.30(7th Semester)
Intermediate (10+2)	Bihar School Examination Board, BSEB	2021	62.8%
High School (10th)	Bihar School Examination Board, BSEB	2019	71.6%

Experience, Certification Summary

- **Python and Raspberry Pi Applications** – Certified by ESC, 2023
- **Mitsubishi PLC Q (Series) & VFD D700** – Certified by IIATCA Kolkata, 2023
- **Cloud Computing & IoT Fundamentals** – Certified by ESC, 2024
- **Internship** | TATA STEEL UISL, Jamshedpur (July 3 - July 19, 2024) – Worked on relay setting data preparation, review, and coordination for power distribution systems.

Projects

- **Twitter Sentiment Analysis Using Python** – Implemented natural language processing (NLP) to analyze public sentiment, leveraging Python libraries like NLTK & TextBlob.
- **Smart Street Light Using IoT & Cloud** – Developed an energy-efficient lighting system using LDR sensors, cloud connectivity, and microcontrollers for smart automation.
- **Industrial Automation Using PLC & Python** – Integrated Mitsubishi Q Series PLC with Python-based automation scripts, improving efficiency in industrial control systems.
- **Web-Based Power Monitoring System** – Built a web application using HTML, CSS, JavaScript, and SQL to monitor real-time power consumption in industrial settings.
- **PV Solar System using MPPT with Battery Charging –** Developed a solar power system with MPPT to extract maximum energy and efficiently charge a battery using a DC-DC converter and microcontroller control.

Skills

- **Programming Languages:** Python, C, C++, SQL

- **Software Development:** Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA), Web Development (HTML, CSS, JavaScript)
- **AI & Data Analytics:** Natural Language Processing (NLP), Sentiment Analysis, Machine Learning Basics
- **Electrical Engineering:** Power System Analysis, Circuit Design, AutoCAD (Electrical), Load Flow Studies
- **Automation & Control:** PLC Programming (Mitsubishi Q Series), IoT-based Smart Systems, Industrial Automation, SCADA

Position of responsibilities

- **Event Coordinator, Freshers' Welcome – NSEC (2022):** Managed event logistics, guest coordination, and student engagement.
- **Teacher's Day Organizer – NSEC (2023):** Led a team of 10+ students to organize a successful event for 100+ faculty members.

Interest

- Cricket (Team & Strategy Analysis)

- Online Gaming (Multiplayer Strategy & AI-Based Games)

- Social Causes (STEM Education for Underprivileged Students)

- Reading (Technical & Leadership Books)

Personal Details

Gender	:	Male
Date of Birth	:	17th January 2005
Language Known	:	English, Hindi