

JOY SAMUL

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OBJECTIVE

Aspiring Software Engineer and B.Tech Computer Science Engineering student with a strong foundation in programming, data structures, algorithms, and object-oriented programming. Hands-on experience in software development, artificial intelligence, machine learning, and data analytics through academic projects and virtual internships. Proficient in C, C++, Python, SQL, HTML, and CSS, with experience building data-driven solutions and applying problem-solving skills to real-world challenges. Eager to contribute to scalable software systems while continuously learning emerging technologies and industry best practices.

EDUCATION

BACHELOR OF TECHNOLOGY (B.TECH) IN COMPUTER SCIENCE ENGINEERING

TECHNO INDIA UNIVERSITY

CGPA : 9

EXPECTED GRADUATION: 2028

Relevant Coursework:

Data Structures & Algorithms (DSA) • Design and Analysis of Algorithms (DAA) • Database Management Systems (DBMS) • Operating Systems (OS) • Object-Oriented Programming (OOP) • Assembly Level Language (8085 Assembly Language) • Probability & Statistics • Python Programming • Artificial Intelligence & Machine Learning • Web Technologies (HTML & CSS)

Higher Secondary Examination (Class XII)

2024

Sarada Vidyapith (HS)

Percentage: 91%

Secondary Examination (Class X)

2022

Sarada Vidyapith (HS)

Percentage: 95.57%

SKILLS :

- **Programming Languages:** C, C++, Python, SQL, Java
- **Core Computer Science:** Data Structures & Algorithms (DSA), Design & Analysis of Algorithms (DAA), Object-Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems (OS)

- **Web Technologies:** HTML, CSS, Javascript
 - **Developer Tools:** GitHub, Visual Studio Code
 - **Productivity & AI Tools:** Microsoft Powerpoint, Microsoft Word, Canva, ChatGPT, Prompt Engineering ,Blender
 - **Soft Skills:** Problem Solving, Leadership, Team Collaboration, Communication, Adaptability
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PROJECTS :

Spam Message Classifier Using Machine Learning |

Developed a supervised machine learning model to classify emails as Spam or Ham using Logistic Regression and Decision Tree algorithms.

- Performed data preprocessing, text cleaning, tokenization, TF-IDF vectorization, and feature engineering to improve model performance.
- Evaluated model performance using Confusion Matrix, ROC Curve (AUC), accuracy, precision, recall, and F1-score.
- Visualized the Decision Tree for model interpretability and compared classification performance across algorithms.
- Technologies: Python, Pandas, NumPy, Scikit-learn, Matplotlib.

Solar-Powered Smart E-Dustbin |

Designed and developed a solar-powered smart dustbin integrating an Arduino microcontroller, ultrasonic sensor, servo motor, rechargeable battery, and photovoltaic panel.

- Automated lid opening through proximity sensing and implemented waste-level monitoring with LED/Buzzer notifications for full-bin alerts.
- Built an energy-efficient embedded system utilizing renewable energy to support sustainable waste management.
- Applied concepts of embedded systems, sensor integration, automation, and power management to solve a real-world environmental problem.

Personal Portfolio Website |

Designed and developed a responsive portfolio website to showcase education, technical skills, projects, certifications, and achievements.

- Developed a responsive and user-friendly frontend with structured navigation and modern UI design.
 - Implemented interactive elements and a contact form for professional communication.
 - Optimized the website for usability, responsiveness, and cross-device compatibility.
 - **Technologies:** HTML, CSS, JavaScript, Google Forms.
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CERTIFICATIONS :

- AWS Data Engineering Virtual Internship – AICTE, EduSkills & AWS Academy
 - Google AI & Machine Learning Virtual Program (*9 Skill Badges Earned*)
 - Tata Forage – GenAI Powered Data Analytics Job Simulation
 - Python for Beginners Virtual Internship – Techno Billion AI
 - Ethical Hacking Virtual Internship – EduSkills
 - AI Professional Certification (CoRover.AI) – Techno Billion AI
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LANGUAGE :

- English
 - Hindi
 - Bengali
 - French
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