

Swayon Bhunia

Johnson City, NY | (607) 595-8557 | swayonbhunia121@gmail.com | <https://www.linkedin.com/in/swayonbhunia>

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Computer Science, Artificial Intelligence Tract

August 2024

Relevant Coursework: Programming Languages, Intro to Machine Learning, Internet of Things, Database and Management Systems, Data Mining, Web Programming, Artificial Intelligence, Mobile Robotics.

Vellore Institute of Technology, Bangalore, India

Post Graduate Certificate Program (Artificial Intelligence Specialization)

July 2024

Vellore Institute of Technology (VIT University), Chennai, India

Bachelor of Technology in Computer Science and Engineering

June 2023

Cumulative GPA: 7.77/10.00

SKILLS

Languages: Python, C/C++, HTML/CSS, Kotlin, SQL

Libraries/Frameworks: TensorFlow, Pandas, NumPy, Scikit-learn, Matplotlib

Tools: VS Studio, Git, Android Studio, Power Bi, Tableau, Jupyter Notebook, Tinkercad, AWS, Node.js

Additional: Google Workspace (docs, forms, sheets), Microsoft Office Suite (Word, PowerPoint), Canva, Adobe Premiere Pro, FL Studio, Virtual Machine, Lightroom, OBS Studio, LumaFusion, Adobe Photoshop, YouTube Studio, graphic design, content management, digital photography/video

RESEARCH AND TECHNICAL PROJECTS

Evaluation of Mobile LoRa. | Binghamton, NY

August 2024 – December 2024

- Evaluate the performance of Long Range (LoRa) technology in mobile environments, especially for IoT applications involving moving devices. Conduct simulations and field experiments in various mobility scenarios.

All-India Unified Transit System using NFC | Chennai, India

August 2023 - December 2023

- Coursework: Capstone Project, NFC technology for payments. Framework optimization, Internet of things (IoT). Blank cards only for One-time usage. Arduino simulation. (TinkerCAD)

Smart Car Parking using Arduino Circuit | Chennai, India

April 2022 – June 2022

- Developed a Car Parking System on TinkerCAD to reduce fuel consumption and promote organization using Arduino, IoT sensors, and ThingSpeak. Secured Second Runner-Up in the Smart IoT Category at a VIT University Hackathon.

PROFESSIONAL EXPERIENCE

SUNY Binghamton University, Student Assistant – Athletics | New York, USA

June 2025 – Current

- Supported Binghamton University's Athletics Division in planning and executing campus events including sports matches and graduation ceremonies by managing crowd control, enforcing safety protocols, and coordinating with facilities and event staff to ensure smooth, organized experiences.

Uttar Pradesh University of Medical Sciences, Event Manager | Saifai, India

November 2024 – December 2024

- Coordinated a virtual ECG diagnostics workshop for 200+ participants, optimizing participant engagement using Google Forms, Canva for certificates, and Zoom for livestreaming.

Tuli e Services Private Limited, Python Developer Intern | Kolkata, India

November 2022 – December 2022

- Developed modules for a Python-based Order Management System (OMS), leveraging NumPy and SQLite for data handling, collaborated with 3-member team to optimize trade execution workflows.

PUBLICATIONS

- **S. Bhunia & S. Abirami**, *Correlation-based Feature Selection and Hybrid ML Approach for Forecasting Disease Outbreaks*, IEEE ICESC 2023. doi: 10.1109/ICESC57686.2023.10193045
- Dhirendra Vaidya, **Swayon Bhunia** and Snehasis Bhunia, "Original Research Article: Electrocardiographic alterations using vectors in subjects of rural population following integrated approach of yoga therapy: A report", International Journal of Current Research (IJCR) 2023, doi: 10.24941/ijcr.45031.03.2023
- Dhirendra Vaidya, **Swayon Bhunia** and Snehasis Bhunia, "Electrocardiographic Alterations Using Vectors in Diabetic Patients (Type-2) of Rural Population: A Comparative Report", 2023 International Journal of Research (IJR) Vol. 10 No. 4 April-2023.

AWARDS AND CERTIFICATES

- **Hackathon 2022** organized by VIT University in Iot, our team obtained **Second Runners Up**.
- **IEEE Certificate of Presentation**, 4th International Conference on Electronics and Sustainable Communication Systems (ICESC-2023) issue July 2023.
- **Course Certificate**, Introduction to Data, Signal and Image Analysis with MATLAB, Vanderbilt University, Issued Oct 2022.
- **Microsoft Certified**: Azure Fundamentals issued May 2022.
- **C Trainee**, Indian Institute of Technology, Bombay, Issued Jan 2022, Credential ID 2268418QV2