

Swayon Bhunia

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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.

Vellore Institute of Technology, Bangalore, India

Post Graduate Certificate Program (Artificial Intelligence Specialization)

July 2024

Cumulative GPA: 9.15/10.00

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

Bachelor of Technology in Computer Science and Engineering

June 2023

Cumulative GPA: 7.77/10.00

Relative Coursework: Software Engineering, Internet of Things, Lean Start-up Management, Digital and Social Media Marketing.

SKILLS

Languages: Python, C/C++, HTML, CSS, Kotlin, SQL, AWS, Node.js

Software: VS Studio, Git, Android Studio, Power Bi, Tableau, Jupyter Notebook, Tinkercad, nrf connect

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, social media, content management, digital photography/video

Certifications: IEEE Certificate of Presentation, **Course Certificate** - Introduction to Data, Signal and Image Analysis with MATLAB, C Trainee (IIT Bombay, India), Microsoft Certified: Azure Fundamentals

RESEARCH EXPERIENCE AND 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

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

November 2024 – December 2024

- Contributed in National Workshop on Diagnostic Techniques of Electrocardiogram (ECG) 2024 as Workshop Manager.
- Online Workshop Management, Meeting Coordination, Data Collection, Certificate Design, Virtual Event Management, Participant Engagement, Workflow Optimization, Technical Expertise, Reporting and Documentation.

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

November 2022 – December 2022

- Completed a eight-weeks internship with the python team to gain experience in python programming.
- Executed the “Python Based OMS Trading Application” learnt functions and operations of python programming

PUBLICATIONS

- **S. Bhunia** and S. Abirami, "Correlation based Feature Selection and Hybrid Machine Learning Approach for Forecasting Disease Outbreaks," *2023 4th International Conference on Electronics and Sustainable Communication Systems (ICESC) at IEEE Xplore*, Coimbatore, India, 2023, pp. 1689-1696, doi: 10.1109/ICESC57686.2023.10193045.
- Dharendra 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”, *2023 International Journal of Current Research (IJCR) India*, 2023, doi: 10.24941/ijcr.45031.03.2023
- Dharendra 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 (2023): Vol-10-Issue-4-April-2023 India*.

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 Certification**, Microsoft Certified: Azure Fundamentals, issued May 2022.
- **C Trainee**, Indian Institute of Technology, Bombay, Issued Jan 2022, Credential ID 2268418QV2