

# Swarnadip Bhowmik

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## EDUCATION

### Kalinga Institute of Industrial Technology

Bhubaneswar, Odisha

B. Tech in Computer Science and Engineering 2021-

2025

- **CGPA:** 8.36/10.0
- **Related Coursework:** Data Structures & Algorithms, DBMS, Big Data, Artificial Intelligence, Data Analytics, Machine Learning, Object Oriented Programming, Operating Systems, Computer Organization & Architecture, Cloud Computing, Compiler Design, Entrepreneurship, Automated Formal Languages.

### B.D.M. International School

Kolkata, West Bengal

CBSE AISSE: 91.2%

2019

CBSE AISSCE: 89%

2021

## Trainings

### CipherByte Technologies [Certificate](#)

June '24 – July '24

- Developed a full stack EVENTPLANNER360. platform enabling users to plan, organize, and oversee diverse events like conferences, weddings, and parties. With features for event creation, guest list management, budget tracking, vendor coordination, and scheduling. Integration with payment gateways facilitates ticket sales and online transactions.
- Extensive use of NodeJS, React, Express, Nodemon. Used MongoDB to store the information in the backend and hosted the frontend on VERCEL. Used Postman to test, build and modify APIs. [Project Link](#)

### Apprentice @ Cisco Net-Acad

May '24 – June '24

- Configuring switches and end devices to provide access to local and remote network resources. Learnt about different OSI models. Implemented different protocols to manage the network. How to implement QoS.
- Implemented standard IPv4 ACLs to filter and secure administrative access. Learnt how to optimize, monitor and troubleshoot scalable network architectures. Configured and debugged various networks on Cisco Packet Tracer. certificate obtained : [Certificate](#).

### Salesforce Developer Virtual Internship by SmartBridge

May '24 – June '24

- Wrote Apex triggers to perform custom database Actions, Executed Apex Unit tests. Integrated with external apps using Apex REST and SOAP services, Ability to automate and enhance the approval process.
- Used logic and formulas to control the paths and variables in the flow. Streamlining the existing flow to support scalability. Optimize and distribute screen flows across user interfaces according to requirements.

## PROJECTS

### Plant Disease Detection System | [Link](#)

Feb'24-April'24

- The TensorFlow and Keras libraries are used for building and training a deep learning model for classifying plant diseases from images. Transfer learning is employed using the MobileNetV2 architecture pre-trained on the ImageNet dataset. The dataset consists of images of various plant diseases across multiple classes, and it is augmented to increase the diversity of training data. Use of Regression model for analysis.
- The model is compiled with appropriate loss and accuracy metrics and trained using early stopping for regularization. Model performance metrics such as accuracy and loss are visualized using matplotlib.
- Inference is performed on sample images from the test dataset to predict the class of plant disease.
- My research paper under Dr. Himansu Das: [Paper](#)

## Revenue Insights in Hospitality Domain | [Link](#)

June'24-June'24

- This is a dashboard to incorporate “Business and Data Intelligence”. I have added a key metric which is RevPar (Revenue Per Available Room) and ADR (Revenue Per Available Room) other metrics like SRN and DSRN are added.
- All these are executed by high level MySQL statements. An automated PowerBi dashboard providing sales insight to support data driven decision making. Developed predictive models and performed statistical analyses using Python and R. Visualization techniques have been used to draw interactive dashboard.

## IBM Data Science | [Link](#)

March'24-May'24

- Skilled in all stages of the CRISP-DM process: Business Understanding, Data Understanding, Data Preparation, Modelling, Evaluation, and Deployment. Experienced in collaborating with stakeholders to define project goals and metrics.
- Competent in exploring and cleaning diverse data sources for analysis. Skilled in evaluating model performance and selecting optimal models.
- Proficient in deploying models into production environments. Familiar with selecting and integrating various data sources, ensuring alignment with project objectives.

## Azure AI Language Service Expertise | [Link](#)

Feb'24-March'24

- Pattern Utilization for Utterance Differentiation-built Entity Component Integration
- Model Training, Testing, Publishing, and Reviewing. Natural Language Processing Development with Azure AI Services.

## COURSES AND ACHIEVEMENT

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### EXCELR GIT AND GITHUB

Jan'24

- Experienced in managing GitHub repositories and utilizing basic GitHub functionalities. Demonstrated ability to track changes, manage branches, and merge code effectively . Certificate: [Git and GitHub](#).

### UDEMY MASTERING DSA AND ALGORITHMS

May'23-July'23

- Proficient in C and C++ with strong knowledge of essential concepts, data structures (arrays, linked lists, trees), sorting algorithms, and string manipulation. Skilled in implementing advanced data structures (binary search trees, AVL trees, hash tables) and adept at algorithm analysis, recursive and iterative problem-solving approaches. Certificate: [UDEMY C And C++](#)

### UDEMY PYTHON PRO BOOTCAMP

July'23-Aug'23

- Python program covering beginner to advanced topics, including project development in areas such as Hangman, Caesar Cipher, and Blackjack.
- Developed projects using Flask, HTML, CSS, Bootstrap. Explored in data tasks with Pandas, Beautiful Soup, Matplotlib, and in data exploration and visualization using NumPy, Seaborn, and Plotly. Certificate : [Python Pro](#)

## CERTIFICATIONS

- 1) [HackerRank Intermediate](#)
- 2) [SQL\(Intermediate\)](#)
- 3) [FlipkartGrid](#)
- 4) [Forage\(AccentureDataAnalytics\)](#)
- 5) [Oracle \(GenAi Professional\)](#)

## SKILLS

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- **LEETCODE:** Problem solver in LeetCode. Awarded 50 days badge 2024 only 6.9% of top LeetCodeers get | [link](#)
- **Programming Languages:** C, C++, JAVA, Python, SQL, HTML, apex, MySQL, JavaScript, NodeJS, React
- **Tools:** TensorFlow, Keras, Matplotlib, NumPy, Pandas, Jupyter Notebooks, Salesforce, Apex, MongoDB, POSTMAN.
- **Technical Skills:** SQL, Python, R, Microsoft Excel, Data Modelling, Data Visualization (PowerBi and Tableau), Statistical Analysis. **Analytical Skills:** Problem-Solving, Data Interpretation, Trend Analysis, Predictive Analysis, Predictive Analysis, Market Analysis.