



## DEEPTI GOWTHAM

B.E. - Computer Science & Engineering

Ph: +91-8610789779

Email: [deepti2110748@ssn.edu.in](mailto:deepti2110748@ssn.edu.in)

Chennai, Tamil Nadu, India - 600061

LinkedIn: <https://www.linkedin.com/in/deepti-gowtham-52063426a>



### BRIEF SUMMARY

Possessing a strong foundation in data structures, algorithms, and core software engineering principles, acquired through a blend of coursework and practical project work. Eager to channel my academic knowledge for coding into impactful contributions as a software engineer. Quick learner with excellent problem-solving abilities, ready to collaborate and thrive in a dynamic team environment. I am enthusiastic in learning new things to make a positive impact through innovative ideas and helping the company achieve a significant presence in the tech industry.

### KEY EXPERTISE

Data Science   AIML   C   Java   Python   AWS   Communication   Leadership Skills   Analytical Skills  
Problem Solving   C++   Multitasking   Strategic Planning   Algorithms   OOPs   Data Structures   Web Development

### EDUCATION

**Sri Sivasubramaniya Nadar College of Engineering (SSN), Chennai**

2021 - 2025

B.E. - Computer Science & Engineering | CGPA: 7.91 / 10

**DAV School, Adambakkam, Chennai**

2021

12<sup>th</sup> | CBSE | Percentage: 94.80 / 100

**DAV School, Adambakkam, Chennai**

2019

10<sup>th</sup> | CBSE | Percentage: 95.20 / 100

#### Course Works - Key Courses Taken :

Problem Solving and Programming in Python  
Fundamentals and Practice of Software Development in C  
Foundations of Data Science  
Data Structures with C  
Object Oriented Programming with JAVA  
Digital Principles and System Design  
Computer Organization and Architecture  
Operating Systems  
Database Management Systems  
Design and Analysis of Algorithms  
Big Data Technologies  
Computer Networks  
Microprocessors, Microcontrollers and Interfacing  
Foundations of Artificial Intelligence  
Software Engineering

#### Labs :

Problem Solving and Programming in Python Lab  
Digital Design Lab  
Data Structures Lab  
Object-Oriented Programming Lab  
Database Management System Lab  
Operating Systems Lab  
Design and Analysis of Algorithms Lab  
Microprocessors Lab  
Networks Lab

## PROJECTS

### INVENTORY MANAGEMENT SYSTEM

10 Jun, 2023 - 21 Jun, 2023

**Mentor:** Dr. N.Sujaudeen | **Team Size:** 3

**Key Skills:** SQL Oracle Database Databases NetBeans

**Project Link:** [https://github.com/Deepti-1204/inventory\\_management](https://github.com/Deepti-1204/inventory_management)

This project involves the usage of SQL/Oracle databases and NetBeans Java. It has effectively organized the streamlined operations involving various entities, ensuring efficient control over raw materials, tools, suppliers, orders, and other components.

My role encompassed mapping complex relationships between entities, such as Firm, Raw Materials, Supplier, and Tool Details using ER Diagram. This facilitated accurate data retrieval and manipulation, optimizing inventory management processes. With my team members, I helped in implementing the user defined operations like insert, update, delete, search in NetBeans Java.

The outcome of the project is it was easy to track and ensure that raw materials are available when it is needed. By using the database, the data was effectively stored reducing the inconsistencies and errors.

### BUS RESERVATION SYSTEM

08 Nov, 2022 - 25 Nov, 2022

**Mentor:** Dr. B. Bharathi | **Team Size:** 3

**Key Skills:** OOPs Inheritance Polymorphism Java

**Project Link:** [https://github.com/Deepti-1204/bus\\_reservation](https://github.com/Deepti-1204/bus_reservation)

This project aims to automate the manual processes involved in managing passenger details, bus schedules, seat availability, pricing, and ticket generation. The system utilizes Object-Oriented Programming (OOP) concepts to create an efficient and user-friendly application. It employs various OOP features such as classes, objects, data abstraction, inheritance, and polymorphism to structure and organize the codebase.

The outcome of the project is to provide efficient seat management for the passengers which reduces overbooking. It also aims in user interaction mode where the users can book their seats, search for a particular seat that provides an user-friendly experience.

I undertook a pivotal role in designing and implementing abstract classes, thereby playing a crucial part in the successful development of the system. This experience underscores my capacity to apply theoretical concepts to real-world scenarios, resulting in the creation of efficient and functional software solutions.

### MOVIE SCHEDULING IN A MULTIPLEX MALL

28 Mar, 2022 - 25 Aug, 2022

**Mentor:** Dr. S. Angel Deborah | **Team Size:** 4

**Key Skills:** Software Development C Creative Problem Solving Algorithms

**Project Link:** [https://github.com/Deepti-1204/movie\\_scheduling](https://github.com/Deepti-1204/movie_scheduling)

This project involves scheduling movies in a multiplex mall with various parameters such as movie ratings, cast, language as predefined input. A mathematical solver such as IBM Cplex is used to compute column generation algorithm.

I have done designing the algorithms and testing it for different test cases which ensured the algorithm's accuracy. Throughout the project, I actively collaborated with team members to exchange insights and discussed various algorithmic strategies. This collaborative effort enhanced the quality of the final implementation.

The outcome of the project is to maximize the profits by considering various constraints especially the crowd management and to have sufficient buffer time between every shows (5 to 10 minutes buffer time).

## ACHIEVEMENTS

- o Participated in 'MARKETIZE' conducted by EDC Lakshya(SSN E-Cell)
- o Attained an outstanding score of 87% in the course "Introduction to Industry 4.0 and Industrial Internet of Things (IIoT)" in NPTEL during Jul-Oct 2023 and awarded a Silver medal in recognition.
- o K! Hacks Hackathon - CEG Tech Forum: Successfully completed first round with innovative 'Health Tech' solution - designed 'Vishvas,' a cognitive simulation and care app for mild to moderate dementia patients.

## ASSESSMENTS / CERTIFICATIONS

### INTRODUCTION TO INDUSTRY 4.0 AND INDUSTRIAL INTERNET OF THINGS

**Aggregate:** 87 / 100

**Key Skills:**

sensing and actuation   cyber-physical-system and next-gen sensors   security and fog computing  
bigdata analytics and machine learning   applications of IIOT

Explored IIoT fundamentals, Industry 4.0 concepts, and advanced technologies like AI, Big Data, and Cyber-Physical Systems. Developed expertise in IIoT security, networking, and application domains through hands-on projects and real-world case studies. Acquired skills in Big Data analytics, machine learning, and software-defined networks for effective implementation in industrial settings.

## SEMINARS / TRAININGS / WORKSHOPS

### CYBER SECURITY WITH LIVE DEMONSTRATION ON SECURITY ATTACKS

17 Aug, 2023 - 17 Aug, 2023

**Institute Name:** Sri Sivasubramaniya Nadar College of Engineering

**Key Skills:** Cyber Security   Kali Linux   Ethical Hacking

This workshop helped to learn about the basics of cyber security and the essential security commands in Kali Linux. It also showed a live demonstration of creation of test beds with various security attacks that can be performed on both Linux and Windows machines

### WEB DEVELOPMENT WORKSHOP - DEVFLIX

23 Jan, 2022 - 23 Jan, 2022

**Institute Name:** Sri Sivasubramaniya Nadar College of Engineering

**Key Skills:** Web Development

This workshop helped in creating a main web page as in the case of 'NETFLIX' online movie platform.

## CO-CURRICULAR ACTIVITIES

- Essay Writing - Won consecutively 3 times in English essay writing competitions, Chess - Participated and won in many district level and state level tournaments

## EXTRA CURRICULAR ACTIVITIES

- NSS - Volunteered actively in beach clean-up , Yoga

## PERSONAL INTERESTS / HOBBIES

- Dance, Photography, Travel, Art, Solving Puzzle Games, Baking

## PERSONAL DETAILS

**Gender:** Female

**Marital Status:** Single

**Current Address:** 10, TNGO Colony, 1st Street, Nanganallur,  
Chennai, Tamil Nadu, India - 600061

**Emails:** deepiti2110748@ssn.edu.in , deepitigowtham1204@gmail.com

**Date of Birth:** 12 Apr, 2003

**Known Languages:** Tamil, English, Hindi

**Phone Numbers:** +91-8610789779, +91-8124842722