

# ANUSHKA NEGI

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## Education

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Graphic Era Hill University, Dehradun

*B.Tech (Hons.) in Computer Science & Engineering with AI - ML*

2023 - 2027

9.3/10 CGPA

## Projects

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**Efficient & Smart Parking Management System** – *C++, Dijkstra, Priority Queue*

- Designed and developed a DAA-based smart parking system using graph algorithms and heap data structures for optimal slot allocation.
- Implemented **Dijkstra's algorithm** to compute shortest paths within the parking zone for real-time vehicle navigation.
- Utilized **priority queues and hash maps** to manage availability, fairness, and booking preferences.
- Optimized the solution to minimize **average wait time** and maximize fairness for all vehicle types.

**CSE Department Chatbot** – *Python, NLP, NLTK*

- Built a rule-based chatbot to handle queries related to CSE faculty, labs, and subjects using NLTK's NLP capabilities.
- Implemented **text preprocessing, stemming, and tokenization** for effective intent classification.
- Used a **JSON-based** structure to train intents and responses, ensuring accurate query mapping.
- Integrated modules like `training.py`, `nltk_utils.py`, and created a working GUI prototype using `Tkinter`.

## Technical Skills

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**Languages:** C, C++, Python, Java, HTML, CSS

**Libraries & Tools:** NLTK, Git, GitHub, VS Code

**Core Concepts:** Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA)

## Certifications

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- Quantum Computing - Conducted by Graphic Era Hill University
- Winter Boot Camp on Data Structures and Python Programming - Conducted by Graphic Era Hill University
- Google Cloud Computing - NPTEL
- Foundation of Cloud IoT Edge ML - NPTEL
- Great Learning Online Python Course
- Great Learning Online Artificial Intelligence Course