UTKARSH KUMAR

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# Objective

Motivated and self-driven b.tech student with a strong interest in AI/ML, database systems, and software development. Actively building skills in Data Structures, Python, Java, and SQL, with a hands-on project focused on energy theft detection using smart grids. Seeking opportunities to contribute to innovative tech projects and enhance real-world problem-solving skills.

# Education

Bachelor of Computer Applications (BCA)  
Manav Rachna International Institute of Research and Studies, Faridabad  
Expected Graduation: 2027  
Key Subjects: Java, C++, Python (in progress), SQL, DBMS, Data Structures, Operating Systems

# Work Experience

Private Tutor (Part-time)  
Self-employed — Faridabad  
Jan 2024 – Present  
- Teaching school students in various subjects, focusing on building foundational understanding.  
- Managing a class of students and creating personalized study plans.  
- Developed strong communication and time management skills.

# Projects

AI Tool for Energy Theft Detection  
Using: PyTorch, Smart Grid Data, NVIDIA Workbench  
- Theme: AI in Smart Grid Development for Efficient Energy Distribution and Management  
- Designing and developing an AI model to detect anomalies in electricity consumption patterns.  
- Leveraging machine learning for improving grid efficiency and preventing energy loss.

# Technical Skills

- Programming Languages: C++, Java (OOP concepts: classes, inheritance, interfaces, etc.), Python (beginner)  
- Databases & Web Tech: SQL (basic queries, joins), DBMS fundamentals  
- Core Subjects: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems  
- Tools & Platforms: PyTorch, NVIDIA Workbench, VS Code, Git  
- Problem Solving: Practicing DSA on Leetcode (focused on arrays, progressing to linked lists)

# Learning Goals

- Complete DSA in C++  
- Learn Python for AI/ML and App Development  
- Master Java OOP concepts (Classes, Objects, Inheritance, Interfaces, etc.)  
- Strengthen SQL and DBMS for backend development  
- Read and understand ‘Deep Learning’ by Ian Goodfellow  
- Practice Reasoning and Aptitude regularly

# Languages

- Hindi – Native  
- English – Proficient

# Additional Information

- Balanced college, self-learning, and a part-time teaching job  
- Strong interest in education, AI ethics, and real-world tech applications  
- Currently building a consistent study routine focused on skill development