AMAN KARN

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SUMMARY

Motivated Computer Science and Engineering student with core skills in Python, C/C++, SQL, and front-end design. Strong understanding of Object-Oriented Programming, Data Structures, and Algorithm Design & Analysis, with emerging interest in Machine Learning. Experienced in building academic and independent projects. A quick learner with excellent collaboration and communication skills, eager to grow in a technical role while contributing to innovative, user-focused solutions.

PROJECT

Hill Climb Game with Machine Learning GitHub

- Designed and implemented a simulated hill climb racing game where a vehicle autonomously learns to navigate dynamic terrains using reinforcement learning.
- Applied algorithms such as Q-Learning/Deep Q-Networks (DQN) to optimize vehicle control,showcasing practical understanding of machine learning and game development.
- Integrated custom physics for terrain, vehicle movement, and rewards system using Python, Pygame, TensorFlow/PyTorch, NumPy, and Matplotlib**.**

Personal Portfolio Website GitHub

- Designed and developed a responsive personal portfolio website from scratch to showcase skills, projects, and achievements.
- Implemented smooth animations, minimalist UI, and interactive components to deliver a modern front-end user experience
- Built a responsive portfolio website with smooth animations, minimalist UI, and mobile-first design using HTML, CSS, and JavaScript.

What's Left? (AUG2025)

- Built EcoWise, a smart waste management web app to track pickups, monitor transactions, and promote eco-friendly practices.
- Aiming to integrate optimized algorithms (DAA) for faster inventory processing and smarter decision-making.
- Future stack expansion with Java-based microservices, cloud deployment, and real-time data analytics.

EDUCATION

Bachelor of Engineering

Sri Eshwar College of Engineering(Affiliated toAnna University, Chennai)

- Major in Computer ScienceandEngineering
- CGPA–7.5(upto Second Semester)

12th Grade

GYANDA Academy – Birgunj, Nepal(Affiliated to Central Board of Secondary Education, New Delhi)

- **Major Subjects:** Mathematics, Physics, Chemistry, Physical Education, English.

10th Grade

Shree Janta Ma.VI - Bagmati , Nepal(Affiliated to National Examination Board, Nepal)

- **Major Subjects:** Mathematics, Optional Mathematics, English, Science, Social Studies, Nepali, Health & Education

CERTIFICATES

- **Mastering DSA using C/C++**(Udemy)
- **Pythonfor Beginner** (Simplilearn)
- **C for Beginner** (CoddyTech)
- **C&C++Training**(IITBombay)

Achivements

- LeetCode (ProfileLink)
- SkillRack (ProfileLink)

SKILLS

- **ProgrammingLanguages:** Python, C, C++, HTML/CSS/JS,Java
- **Frameworks:** Django
- **Databases:** SQL, MongoDB
- **Other:** Data Structuresand Algorithms
- **Tools:** Animate,Git, Microsoft Office (Word/Excel/Access)
- **Languages:** English, German,Hindi CTamil
- **Soft Skills:** Problem-solving, Teamwork, Adaptability, Communication,CriticalThinking