Avni Gupta

 23/D Race Course, Dehradun   avngupta06@gmail.com   9105818000   in avni-gupta101
 AvniGupta101

Education

Thapar Institute of Engineering and Technology   *Aug 2023 – Aug 2027*
B.E. Computer Science and Engineering   CGPA: 9.19/10

Brightlands School, Dehradun
Senior Secondary (ICSE,2023): 95.75%
Secondary (ICSE, 2021): 94%

Experience

Frontend Developer   *Dec 2024*
Humble Coders   `humblecoders.in`

- Developed the frontend for a web platform aimed at enhancing online education by selling courses.
- Utilized technologies like React, HTML, CSS, and JavaScript to build a scalable and interactive interface.
- Collaborated with a team to align design and functionality with business requirements.

Backend Developer
Zylectra Technologies   July 2025 – Present

- Selected for a high-impact internship at a startup building AI-based EV route and charger optimization systems (Zylectra Orbit), incubated at Venture Lab, Thapar Institute.
- Developed backend for an EV charger booking system using Node.js, Express, and PostgreSQL with secure JWT authentication.
- Implemented a state machine–driven booking service and built real-time WebSocket updates and analytics APIs to track station availability, booking status, and usage insights.

Projects

Subscription Tracker   GitHub Repository
Tools Used: React.js, Node.js, Express.js, MongoDb, Tailwind CSS

- Built a full-stack web application to track and manage recurring subscriptions, monitor monthly/yearly expenses, and provide renewal reminders, improving financial visibility and expense management.

DriveSafeAI – Multimodal Driver Fatigue Detection System

Tools Used: TensorFlow, CNNs, MFCCs, Accelerometer and Gyroscope Sensors, Ensemble Learning
   a real-time driver monitoring system using ensemble deep learning and IoT, combining vision and voice-based CNN classifiers with Jetson Nano and sensors to detect drowsiness/distractions, achieving 99.77 percent accuracy and enabling real-time safety alerts.

Technologies

Languages: Python , Java, C/C++, R, Matlab, JavaScript, HTML/CSS, SQL
Developer Tools: VS Code, Git, GitLab, GitLive
Technologies: MERN, AutoCAD, Arduino, Flask ,PostgreSQL

Position of Responsibility

Member — Creative Computing Society, Thapar

Hobbies

Indian Classical Music (Visharad), Indian Classical Dance — Kathak (5 years)