Divyansh Singh Manhas

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PROFILE

I am a Computer Engineering student at Thapar Institute of Engineering and Technology with a strong passion for technology and problem-solving. I am eager to learn, dedicated to continuous improvement, and believe in perseverance and hard work to achieve my goals.

EDUCATION

- **Thapar Institute of Engineering and Technology** — Patiala, Punjab
  B.E/B.Tech - Computer Engineering; CGPA: 9.27 — *2022 - 2026*
- **Triple M Public School** — Dasuya
  High School - PCMB; Percentage: 95% — *2019 - 2021*
- **St. Paul's Convent School** — Dasuya
  High School - Nursery-10th - ICSE; Percentage: 89.33% — *2019*

SKILLS

- **Programming Languages**: C, C++, Python, JavaScript, R
- **Web Technologies**: HTML, CSS
- **Tech Stacks**: MERN Stack, Machine Learning, Deep Learning, Data Science
- **Database Management**: PostgreSQL, MySQL

PROJECTS

- **Family Travel Tracker**: User can track countries visited and add travel data for family members.
  Tech Stack: HTML, CSS, Embedded JavaScript, Node.js, Express.js, PostgreSQL
- **Poly Cystic Ovary Syndrome Detection Model**: Developed an ML model for PCOS detection with highest accuracy among research papers. Used ensembling for feature selection using optimization techniques like Particle Swarm, Grey Wolf, and Whale optimization to bring novelty.
  Tech Stack: Python, Machine Learning
- **Campus Connect**: Website where users from a campus can connect with others based on destination. Users can enter their destination and search for it, if a group having members with the same destination on the same day exists, then the user can join that group else the user can create his/her own group as a group leader. In the group, the members can chat about their route or timings of departure.
  Tech Stack: HTML, CSS, React.js, Node.js, Express.js, MongoDB
- **ChestXScan**: A platform where users can upload their chest scan images, and an ML model will predict whether they have pneumonia or not. If detected, a list of available doctors is shown to the user, allowing them to book appointments. There is also a separate interface for doctors to set availability and confirm appointments.
  Tech Stack: Node.js, Mongoose for data modeling, MongoDB, Bcrypt, Express.js, JavaScript, React
  Security: JWT-based token authentication