

# PREMCHAND SHARMA

Creative and detail-oriented Computer Science student with a strong foundation in problem-solving, C++, Object-Oriented Programming (OOP), Machine Learning, MySQL, DBMS, and Front-End Development. Proficient in designing user-friendly interfaces and crafting responsive, dynamic web applications. Passionate about continuous learning and delivering high-quality software solutions.

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## Education

### Chandigarh University

*Bachelor of Engineering in Computer Science (AIML Specialization) — CGPA: 7.36*

**2022 – Present**

*Mohali, Punjab*

### Narayana Jr College

*Class XII (TSBIE) — 97.3%*

**2021 – 2022**

*Hyderabad, Telangana*

### Newton High School

*Class X (TS SSC) — 10 CGPA*

**2019 – 2020**

*Hyderabad, Telangana*

## Projects

### Neural Visions: AI Art | *Python, TensorFlow, PyTorch, Keras, GANs, CNNs*

**Jan 2024**

- Developed Generative Adversarial Networks (GANs) to generate innovative artwork replicating various artistic styles.
- Improved model accuracy from 67% to 82% using the DELTA Propagation rule with an efficiency of 97%, and enhanced processing speed by 4x.

### House Price Prediction | *Python, Scikit-Learn, Pandas, NumPy, Matplotlib*

**June 2024**

- Built a predictive model using regression techniques to estimate property prices.
- Built a predictive model using regression techniques to estimate property prices with an accuracy of 85%.

### Smart Helmet | *Arduino IDE, Sensors*

**April 2023**

- Integrated alcohol detection and helmet-wearing sensors to prevent ignition if the rider is intoxicated or helmetless.
- Achieved 95% accuracy in sensor detection and implemented IoT-based emergency alerts, enhancing rider safety.

## Technical Skills

**Programming Languages:** C/C++ (Proficient in DSA), Python, HTML, CSS, JavaScript

**Developer Tools:** VS Code, Jupyter Notebook, PyCharm

**Technologies/Frameworks:** TensorFlow, PyTorch, Keras, Artificial Intelligence, MS Excel, MS PowerPoint

**Operating Systems:** Windows, Linux, iOS

**Database Management:** DBMS, MySQL

**Interpersonal Skills:** Communication, Problem-Solving, Time Management

## Certifications

- Microsoft Azure AI Fundamentals|Microsoft| 🔗
- Python For Everybody|Coursera| 🔗
- NDG Linux Essentials|Cisco Academy| 🔗
- NDG Linux Unhatched|Cisco Academy| 🔗

## Achievements Activities

- Top 5 in Codeforces coding event at Chandigarh university, Punjab
- Ranked in the top 10 out of 500 teams for creating a Smart Helmet solution in great India hackathon
- Competed with 350 teams and qualified for the second round, advancing among the top 150 teams in vihaan 2.0 conducted by IEEE
- 1st prize in Bhangra competition by TRSMA, Hyderabad