

# Akshat Dahal

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## EDUCATION

### Thapar Institute of Engineering and Technology

**B.E. - Computer Engineering**

CGPA: 8.30

Patiala, Punjab

Sept 2022 - Present

### Global School of Science

**NEB**

GPA: 3.7

Kathmandu, Nepal

Apr 2020 - Apr 2022

## PROJECTS

### Barbershop Website with Avatar Generation

- **Developed a responsive and user-friendly web application** tailored for a barbershop business, incorporating a feature for personalized avatar generation.
- **Implemented custom avatar generation** using a library like [Avataaars](#) for fun and unique user experiences.
- Designed an intuitive UI/UX with HTML, CSS, and JavaScript, and ensured cross-platform compatibility using frameworks like React.js.
- Integrated backend functionality using Node.js/Express.js, with data storage and user management supported by MongoDB.
- Created features such as **appointment booking, customer feedback, and staff management** to streamline the barbershop operations.

### Impact Player Prediction in Cricket

- **Developed a Python-based machine learning model** to predict if a player is likely to have a "High Impact" performance in a cricket match.
- Defined the "High Impact" criteria based on weighted features:
  - **Centuries (100s)**: Highest weight.
  - **Fifties (50s)**: Contribution weighted at 0.6 times the significance of centuries.
  - **Strike Rate (SR)**: Incorporated with a weight of 0.3 for a balanced metric.
- Pre-processed datasets, handled missing values, and engineered features to enhance predictive accuracy.
- **Trained a Logistic Regression model** to classify players into "High Impact" or not, achieving high AUC-ROC scores for evaluation.
- **Implemented hyperparameter tuning** using RandomSearchCV to optimize model performance and explored other classification techniques such as Random Forest for comparative analysis.

## SKILLS

**Programming Languages:** C, C++, SQL

**Tools and Platforms:** Visual Studio Code, Google Collab

**Courses:** Data Structures and Algorithms, Database Management System, Cloud Computing, Data science

**Soft Skills:** Patience, Collaboration, Adaptability

## ACHIEVEMENTS

- Played in All North Zone Interuniversity Cricket Tournament, showcasing exceptional skill and dedication to cricket.
- Played for TIET cricket team in Inter Technology and URJA

## CERTIFICATIONS

- Foundation Of Data Science, Coursera

Jul 2023 - Dec 2024

## POSITIONS OF RESPONSIBILITY

- Served as Branch Captain for CSE branch of over 1,000 students during the Thaparlympic, leading the team in various events.
- Currently the **Sports Secretary of Neeram Hall**, demonstrating strong leadership and organizational abilities.