

## Pratik Raj

Final Year Undergraduate | Indian Institute of Technology(IIT) Gandhinagar  
Major: Electrical Engineering | Minors: Computer Science and Engineering

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## Education

Degree	Institution	CPI/%	Year
B.Tech	IIT Gandhinagar	7.72	2020 - Present
Class XII	St. Anne's High School, Patna	92	2018-2019
Class X	St. Anne's High School, Patna	10.0	2016-2017

## Projects

- **Project Course, Deep Learning IITGN ([Link](#))** [August-December 2022]
  - Worked as one of the members of a group of three people.
  - Learned intermediate-level Python skills, Data Augmentation and neural networks.
  - Contributed to creating an augmented dataset and implementing the model and the final execution.
  - Built a BinaryImage Classifier using the VGG-16 model.
- **Course Project, Databases, IITGN ([Link](#))** [January-April 2023]
  - Worked as a member of a group as a database designer.
  - Learned RDBMS, MySQL, and NoSQL.
  - Contributed as a database engineer.
  - Created a database for the food delivery web application.
- **Maker Bhawan, CNC Foam Cutter, MB IITGN** [January-April 2022]
  - Worked as one of the members in a group of two people.
  - Learned hardware implementation of circuit boards, Arduino UNO board programming, G-Code(UGS) and Node MCU implementation.
  - Contributed to the design proposal, Arduino UNO board programming and assembly.
  - Created a CNC machine with a new design implementation.
- **Project Course, Data Analysis, Applied Statistics, IITGN** [January-April 2022]
  - Solo work throughout the project.
  - Learned how to handle the dataset and Python libraries(Pandas, Numpy, Matplotlib, Seaborn).
  - Performed exploratory data analysis (EDA) to identify critical trends and patterns in customer tipping behaviour.

## Positions of Responsibility

- **Organizer of HallaBol, the Intra-College Sports Tournament.** [March-April 2022]
  - Organised a 15-day sports tournament involving over 500 students and faculty.
  - Organised around 100 Badminton Matches as a team of 1 Coordinator and 5 General Members.
- **Event Executive, Blithchron'21 (Annual Cultural Festival, IIT Gandhinagar)** [Jan'21-Jul'21]
  - Successfully tackled the problems and coordinated with other team members to organise 9-10 events for Blithchron, the annual cultural festival of IIT Gandhinagar.
  - It allowed me to unveil my communication and management skills.

## Achievements

- The Maker Bhawan project was selected as the best project in that project course. [2022]
- Runnerup in EnQuizitive 3.0 Quiz at IITGN. [2022]

## Skill Summary

- **Languages:** C/C++, Python, R, Socket Programming, Verilog, HTML, CSS, JS, MySQL, Flask.
- **Tools:** Linux, Git/Github, Arduino, Colab, Wireshark, AWS(EC2), WordPress, MATLAB, LTSpice(Circuit Designing), UGS, Keil uvision5, TinkerCAD, Nmap.

## Extra-Curricular Activities

- Photography(IITGN Club), Badminton, Competitive Programming, Web development.