

## Pratik Raj

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

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[Github](#)

## Education

Degree	Institution	CPI/%	Year
B.Tech	IIT Gandhinagar	7.7	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 ([Link](#))** [Prof. Shanmuganathan Raman] [Aug-Dec 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.
- **Food Delivery WebApp, Databases, IITGN** [Prof. Mayank Singh] ([Link](#)) [Jan-Apr 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.
- **Portfolio Website Development ([Link](#))** [May-June 2023]
  - Developed a dynamic and visually appealing personal portfolio website using HTML, CSS, and JavaScript to showcase skills and projects.
  - Implemented responsive design principles to ensure an optimal user experience across various devices and screen sizes, enhancing accessibility and usability.
  - Ensured responsive design for optimal user experience across devices, enhancing accessibility.
- **Image Recognition using Eigenfaces** [Prof. Shanmuganathan Raman] [Aug-Sep 2022]
  - Utilised Eigenfaces and singular value decomposition (SVD) for nonlinear face detection, emphasising unique facial features like eyes and smile.
  - Integrated the PCA (Principal Component Analysis) algorithm for dimension reduction, refining the efficiency and precision of the model.

## Positions of Responsibility

- **Organizer of HallaBol, the Intra-College Sports Tournament.** [Mar-Apr 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-Jul 2021]
  - 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

- One of my projects was selected as the best project in that project course. [2022]
- Led a team of 4 and achieved 4th position in an intra-college Badminton tournament. [2023]
- Runnerup in EnQuizitive 3.0 Quiz at IITGN. [2022]

## Skill Summary

- **Languages:** C/C++, Python(lib viz. Sklearn, TensorFlow, PyTorch, OpenCV, Pandas, NumPy, Seaborn, Matplotlib), R, HTML, CSS, JS, MySQL, Flask.
- **Tools:** Linux, Git/Github, Arduino, Colab, Wireshark, AWS(EC2), WordPress, MATLAB.

## Extra-Curricular Activities

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