

# PRATYUSH RANJAN

Second Year Undergraduate  
Department of Mechanical Engineering  
Indian Institute of Technology, Kanpur

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## INTERESTS

Theoretical Mathematics, Algorithms and Implementation, Deep Learning optimised models, Computer Vector Graphics.

## EDUCATIONAL QUALIFICATIONS

Year	Degree	Institution(Board)	CGPA/%
July'19 – June'20	B.Tech, ME	Indian Institute of Technology, Kanpur	9.0/10.0
2018	AISSCE – XII	KV IFFCO Aonla, Bareilly (CBSE)	92.8%
2016	CBSE – X	KV IFFCO Aonla, Bareilly (CBSE)	10.0/10.0

## SCHOLASTIC ACHIEVEMENTS

- All India Rank 3395, JEE Advanced (amongst 160,000 candidates)
- KN Saluja Scholarship 2019, for academic achievement in the respective year
- Awarded as Magna-cum-laude (top 15%) during internship @TCG,
- All India Rank 43, COMEDK-2019 (amongst 70,000 candidates)

## PROJECTS

### FullStack Blogs Web-App

🌐 pranjanpr/FullStack  
Self Project July, 2020

- Created a Full Stack web application for users to signup/login and post blogs based on **Django** backend and simple HTML/CSS and **JavaScript**.
- Added email verification from Gmail ID for user signup and forgot password functionality.
- Used default Django Admin console to moderate user profiles and modify user permissions and view active/inactive status.
- Added sorting algorithms to sort blogs of different users by date, also added change username and profile picture functionality.

### ACA Semester Project

🌐 pranjanpr/WTD  
Member WTD, IIT Kanpur Jan-2020

- Worked on a ToDo application (WTD) and devised clickable components and screens using **React-Native framework**. Optimised for both Android and iOS.

### Basic Competitive Programming

Programming Club IIT Kanpur Summer'2020

- Learned concepts like Graphs, Trees and Dynamic Programming during summers in **C++**.

### Scrapper

🌐 pranjanpr/pclubsecy  
Programming Club Summer'2020

- Made a scrapper file to extract the details of selected participants in G'SOC from IITK.

## MISCELLANEOUS

- Read various research papers like **FaceTube** and **Vector Graphics Rastorisation**.
- Contribute to Open Source projects like Material-UI.
- Completed Hactoberfest 2020 successfully by contributing four PRs.
- 3\* on CodeChef.
- Created my personal portfolio website using ReactJS.

## RELEVANT COURSES

Introduction to Programming  
Real Analysis

Linear Algebra  
Introduction to Electronics

Ordinary Differential Equations  
Introduction to Electrical Engineering

Partial Differential Eq.  
Complex Analysis

## WORK EXPERIENCE

### Trariti Consulting Group (TCG)

Machine Learning Developer India June 2020 - July 2020

- Summer Intern continued as a ML developer.
- Worked on a web based ML tool for predicting personality from the video analysis of candidate.
- Used **OpenCV** for facial landmark detection to predict real-time emotions occurring on the face.
- Implemented facial cues calculation from the already detected emotion for every frame of the video based on **FaceTube** paper.
- Used **Tensorflow** and **XGBoost** model for training and predicting personality based on evaluated facial cues.
- Evaluated test set with above 90% accuracy.

### Trariti Consulting Group (TCG)

Frontend and Backend Developer 🌐 pranjanpr/Ehealth July 2020

- Made a full stack E-health startup website based on **ReactJS** frontend framework.
- Devised user side login and sign up functionality aided with specialist login, sign up and email verification.
- Used React based **Stripe API** for the payment of specialist fees.
- Fully synchronised the Frontend part with **Django** backend including proper payment canal.

## POSITIONS OF RESPONSIBILITY

- **Secretary, Entrepreneurship Cell, IIT Kanpur 2020-21**  
Coordinated and communicated with startup companies for student internship program at IIT Kanpur.  
Helped in managing various talks from CEOs and top startup founders in India.
- **Secretary, Fine Arts Club, IIT Kanpur 2020-21**  
Organized and conducted lectures on Sketching and Origami Art in the online semester.  
Provided guidance to freshmen students enthusiastic about art.
- **Council Secretary, Media and Cultural Council, IIT Kanpur 2020-21**  
Helped in managing finance and logistics for the council.

## SKILLS

**Proficient:** C/C++, JavaScript, Python, GoLang  
**ML:** TensorFlow, Keras, MATLAB, OpenCV, GNU Octave  
**Web:** ReactJS, Django, React Native, TypeScript, Redux  
**Utilities:** Shell Utilities, Git, npm, Yarn, Anaconda, Ubuntu, Jupyter Notebook,  $\LaTeX$ , LibreCAD