

# Lakshita Mohanty

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

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## Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2019 - Present	B.Tech	Indian Institute of Technology, Kanpur	6.9/10.0
2019	CBSE(XII)	MM Public School, Pitampura	93.8%
2017	CBSE(X)	SD Vidya Mandir, Panipat	10.0/10.0

## Scholastic Achievements

- Secured **All India Rank 6033** in **JEE Advanced 2019** among the 2.45 Lakh shortlisted candidates
- Secured **All India Rank 21999** in **JEE Mains 2019** among the 11.47 Lakh shortlisted candidates
- Vapi City Topper** in **13th National Science Olympiad 2011** with a percentile score of **99.73** and **All India Rank 145**

## Internships

- Interned at UnchaAI as JEE mentor** (September'20-October'20)
  - Mentored JEE aspirants and cleared **physics, chemistry** and **mathematics** doubts
  - Guided them with a **personalized time table** and **regularly tracked their performance**

## Projects and Workshops

- Facial Expression Recognition using ML | Brain and Cognitive Society IITK** (May'20-July'20)
  - Replicated a paper on CNN study **FER** with **Convolutional Neural Network** via a **new face cropping** and **rotation strategy**
  - Employed **data augmentation, image cropping** and **CNN** while working in a team of 9 members
  - Achieved a final accuracy of **93.46%** and **90.54%** on **JAFFE** and **CK+ dataset** respectively for 7 classes
  - Conducted **Literature Review** on the current methods of Facial Expression Recognition
- BCS Workshop | Brain and Cognitive Society IITK** (April'20)
  - Learnt **Basic Python, Machine Learning, Computational Modelling** and **Psychophysics**
  - Designed a psychophysics experiment based on **The Role of Categorization in Visual Search for Orientation** using **PsyToolkit**
  - Conducted experiment on 7 participants and analysed the data using **Numpy, Pandas** and **Matplotlib**

## Technical Skills and Experience

- Programming Languages:** C, C++,  $\text{\LaTeX}$ , MATLAB, Python, Java
- Libraries:** Tensorflow, Keras, Numpy, Matplotlib, Pandas, OpenCV, Scipy
- Codeforces:** lakshita.mohanty (896) (October'20-Present)
- Codechef:** lmohanty.2002 (1598) 2-star (October'20-Present)

## Relevant Courses

Data Structures and Algorithms	Fundamentals of Computing
Real Analysis	Linear algebra & Ordinary Differential Equations
Introduction to Electrical Engineering	Introduction to Electrodynamics
Manufacturing Processes	Nature and Properties of Materials

## Positions of Responsibility

- Student Guide, Counselling Service IITK** (October'20-Present)
  - Helped in organizing **Orientation (Y20)** for **1000+** freshers
  - Provided **guidance and emotional support** to a group of **six freshers** by helping them adjust to college life
- Academic Mentor MTH101/102, Counselling Service IITK** (September'20-Present)
  - Mentored students** who have faced difficulty in their freshman year **mathematics courses**
  - Taken academic classes and **hall-level doubt clearing sessions** for first years
- Secretary, Brain and Cognitive Society IITK** (August'20-Present)
  - Hosted various **Journal Club Talk** events by researchers and P.Hd students on **NLP, cognitive studies** and **ML**
  - Managed the **LinkedIn page** of the society as a part of the **Web Reach team**
- Secretary Research Wing, Academics and Career Council IITK** (April'20-Present)
  - Approached **15+** **startups** for **internship positions** in the field of **E-vehicle R&D** to help students get internship during lockdown
  - Interacted with **IITK alumni** and documented their **research experience** in the form of **AnC Blogs**
- Secretary, Quiz Club IITK** (July'20-Present)
  - Organized and conducted **themed quizzes** for campus community

## Extra-Curricular Activities

- Volunteer, Raktarpan IITK** (May'20-Present)
  - Helped spread awareness and bust misconceptions regarding **Blood Donation**
  - Collaborated with **Fine Arts Club, IITK** and **organized an art competition** to promote Blood Donation
- Participated in **Hacktoberfest 2020**, open source contribution fest organized by Digital Ocean
- Worked under **Photography Club** and **Film Club** in **Galaxy'20**, the inter hall Cultural Championship
- Assisted the Senior Executive in activities pertaining to **Public Relations** in **Udghosh'19**, the annual sports fest of IITK