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

- **SURGE Research Intern | Under Professor Ishan Sharma, Mechanical Department** *(June'21-Present)*
- **ML/AI Intern at Sybylline Robotics, Incubation Centre, IIT Patna** *(May'21-July'21)*
- **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**

Hackathons and Competitions

- Qualified for the **Amazon AWS DeepRacer Women's League 2021 National Race** and secured an **All India Rank 27**
- Achieved a rank of **898** out of the **4389 Kaggle submissions** for **Digit Recognizer Data Science Challenge**
- Qualified for the **Google Code Jam 2021 Round 1** coding competition

Technical Skills and Experience

- **Programming Languages:** C, C++, LaTeX, MATLAB, Python, Java
- **Codeforces:** lakshita.mohanty (896)
- **Codechef:** lmohanty_2002 (1598) 2-star
- **Libraries:** Tensorflow, Keras, Numpy, Matplotlib, Pandas, OpenCV, Scipy
- **Kaggle:** Lakshita Mohanty (Contributor ranking)

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

- **Manager Research Wing, Academics and Career Council IITK** *(March'21-Present)*
    - Responsible for conduction of research-related activities to promote research interests in the student community
- **Secretary Research Wing, Academics and Career Council IITK** *(April'20-March'21)*
    - 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**
- **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-March'21)*
    - Hosted various **Journal Club Talk** events by researchers and PhD students on **NLP, cognitive studies** and **ML**
    - Managed the **LinkedIn page** of the society as a part of the **Web Reach team**
- **Secretary, Quiz Club IITK** *(July'20-March'21)*
    - 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
- **Scrabble Tournament**
    - Ranked among **top 16 players** in IITK scrabble league
    - Participated in **Inter IIT scrabble league**
- 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