

# Muskan Kumari

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## Education

- **B.Tech Electronics & Communication Engineering** (2019-2023)  
Chandigarh Engineering College, Mohali, Punjab Marks: 88.6

## Work Experience

- **Indian School of Robotics, Chandigarh** **July 2023 - Present**  
STEM and Robotics Educator
  - Conducted projects involving microcontrollers (Arduino Uno).
  - Worked with sensors & drivers.
  - Worked with microbits and created projects.

## Projects

1. **Power Generation from Footsteps**
  - Used microcontroller AT89S52, CSI IDE from Keil Compiler.
  - Converted footsteps into electric current without conventional energy sources.
  - It can be combined with a home treadmill so that you can monitor the intensity of your workout by the glowing LED.
2. **Image Captioning Deep Learning Project** **Source code**
  - Utilized models like ResNet50 and Long Short-Term Memory.
  - Backend implemented with Flask.
3. **Double Acting Compressor-Based Oxygen Concentrator Patent**  
Developed to store ample compressed oxygen, aiding hospitals during emergencies.
4. **Robo Car Singing National Anthem and Moving**

## Skills

• Python • Arduino Uno • C++ • Micro-bit • HTML • Django • Embedded C

## Achievements

- Contributed to a promising project during SIH (Smart India Hackathon).
- Third prize in inter-college debate competition & presentation on stubble burning.
- Published research paper on exploring power drives for industrial applications.
- Data Science: Machine learning from ThinkNext Technologies, Mohali, Punjab.
- Participated in ideathon for carbon neutrality movement.

## Hobbies

- Origami folding. • Playing badminton. • Stargazing and constellations. • Blogging on Medium.