

# Shailesh Kumar

[kumar.shailesh1597@gmail.com](mailto:kumar.shailesh1597@gmail.com) | +917007786069 | LinkedIn: [shailesh-kumar-2171a814b](#) Website: [shaileshkumar97](#)

## EDUCATION

### Maulana Azad National Institute of Technology

Master of Technology in Artificial Intelligence; CGPA: 7.83/10

Bhopal, India

2019 - Present

- Machine learning
- Computer Vision
- Data Mining

- Deep Learning
- Natural Language Processing
- Statistical Methods

### Shri Ramswaroop Memorial College of Engineering & Management

Bachelor of Technology in Electrical Engineering; Percentage: 74.14 %

Lucknow, India

2015 - 2019

#### • Awarded Gold Medal for Best Departmental Project of the year 2019.

- Engineering Mathematics
- Network Analysis & Synthesis

- Signals & Systems
- Control Systems

## TECHNICAL SKILLS

- **Languages:** Python, SQL, HTML/CSS, Matlab
- **Frameworks:** Flask, Django
- **Developer Tools:** Git, Google Cloud Platform, PyCharm
- **Libraries:** PyTorch, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, OpenCV, PIL, Librosa, NLTK

## EXPERIENCE

### Computer Vision & IoT Intern

The Sparks Foundation (Mar 2021 - Apr 2021)

- Implemented a **MobileNet & SSD Algorithms with OpenCV's DNN** module to Detect Multiple Objects and Persons in the Image.
- Implementing a Fault detection system which detects and eliminates the faulty products based on the shape/colour.

### Data Analytics Consulting Intern

KPMG (Sep 2020 - Oct 2020)

- Implemented data quality assessment and completeness in preparation for analysis.
- Implemented high value customers targeting based on customer demographics and attributes.
- Used visualisations to present insights.

### Industrial Summer Intern

UPPCL Lucknow (Jun. 2018 - Jul. 2018)

- Did Analysis of Data Coming from Different Components of Distribution Station.
- On-field Distribution Control Station Assistance & Communication in real time over a Private Network to Sync Data.
- Used Data Insights to Monitor the Health & Working of Different Components.

## PROJECTS

- **Blindness Detection:** Implemented some of the latest deep learning algorithms to help doctors diagnose various diseases.
  - Trained **ResNet101 & ResNet152** on **Blindness Retinopathy dataset** to classify Blindness Risk to prevent lifelong diseases. These models may be used to detect other sorts of diseases in the future, like glaucoma and macular degeneration.
- **GAN:** Continuous project where I implement several applications of GAN's.
  - Anime faces generation using DCGAN.
  - Generating Artworks using GANs.
- **StackOverflow Survey:** Data Analysis to explore the overall programming community. The **dataset contains 64k** responses to an annual survey conducted by StackOverflow.
- **Arduino Based Drone Technology:** Final year B.Tech. project under Prof. Gaurav Pandey(Control Systems lab) to make a **Multi-Task Low-Cost Circuit**.
  - Developed a low-cost control circuit on drone technology to make it more robust, efficient & affordable for wide range of applications using Arduino microcontroller.

## ACHIEVEMENTS

- Won 2nd prize in Robo-Soccer competition in Gantavya'18, technical festival of SRMCEM Lucknow
- Won 3rd prize in HurdleMania competition in Technex'18, technical festival of IIT BHU
- Won 3rd prize in Robo-Race competition in Tech-Carnival'18, technical festival of AIMT Lucknow

## CERTIFICATIONS/COURSES

---

- Artificial Intelligence, Machine Learning & Deep Learning Program | Letsupgrade (May 2021)
- Data Structures and Algorithms in Python | Jovian.ai (Apr. 2021)
- Deep Learning with PyTorch: Zero to GANs | Jovian.ai (Jan. 2021)
- Data Analysis with Python: Zero to Pandas | Jovian.ai (Oct. 2020)
- Machine Learning | Stanford & Coursera (Oct. 2020)
- Introduction to TensorFlow Lite | Udacity (May. 2020)
- Introduction to TensorFlow for Deep Learning | Udacity (Apr. 2020)

## POSITION OF RESPONSIBILITY

---

### **Gantavya 2016 - Technical and Entrepreneurial Festival**

Aug. 2016 - Mar. 2017

*Grobots Club*

*SRMCEM Lucknow*

- Successfully organized Robo-Soccer, Robo-Race Event together for the first time in Gantavya.
- Organized workshops and Seminars for technical events.

### **Abhivyakti 2016 - Cultural Festival**

Aug. 2015 - Mar. 2016

*Security Cell*

*SRMCEM Lucknow*

- Successfully organized Xero, Starnight together and coordinated with different clubs throughout the festival in Abhivyakti.
- Promoted security awareness through seminars.

## INTERESTS

## ADDITIONAL INFORMATION

- CUBE SOLVING
- 3D ANIMATION
- DOING CREATIVE AND ENGINEERING WORK

- A TEAM PLAYER AS WELL AS AN ADEPT INDEPENDENT WORKER.
- ENTHUSIASTIC ABOUT IMPROVING MY SKILLS
- LOGICAL APPROACH