

Shailesh Kumar

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EDUCATION

Maulana Azad National Institute of Technology

Master of Technology in Artificial Intelligence; CGPA: 7.95/10

Bhopal, India

2019 - 2021

- 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:** FastAPI, Streamlit, Dash, Flask, Django
- **Developer Tools:** Docker, Git, Google Cloud Platform, Visual Studio, PyCharm
- **Databases:** PostgreSQL, Redis, MySQL, MongoDB
- **Big Data:** Spark, Delta Lake
- **Libraries:** Pyspark, PyTorch, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, OpenCV, PIL, Librosa, NLTK

EXPERIENCE

Data Scientist Intern

katonic.ai (June 2021 - present)

- Building a Enterprise **Feature Store** to complete platform that manage the end-to-end life-cycle of features and integrate with existing data stores, feature pipelines, and ML platforms.

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

- AI Product Manager | Udacity (Nov 2021)
- 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

Grobots Club

Aug. 2016 - Mar. 2017

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

Security Cell

Aug. 2015 - Mar. 2016

SRMCEM Lucknow

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

INTERESTS

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

ADDITIONAL INFORMATION

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