

Amisha Gangwar

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in <https://www.linkedin.com/in/amisha-gangwar-486669167>

🔗 <https://github.com/amisha-21>

Portfolio: <https://amisha-21.github.io/amisha-portfolio.github.io/>

EDUCATION BACKGROUND

University of Allahabad

B.Tech, Computer Science and Engineering; GPA - 9.27/10.00; Top (3/60)

Prayagraj (Allahabad), India

May 2022(Expected)

- **Dissertation** : Air Pollution Monitoring and Forecasting System.(Pre-Final year)
- **Relevant Coursework**: Database Systems, Data Structures, Operating Systems, Theory of Computation, Design and Analysis of Algorithms, Computer Networks, Advance Concepts of Programming Language.

EXPERIENCES

Independent Research and Development Lab

Machine Learning Researcher

Hyderabad, India(Remote)

Sep. 2021-Present

- Working on Plant Weed Classifier.

Defence Research and Development Organization(DRDO)

Summer Researcher

Chandigarh, India

Jul. 2021-Sep. 2021

- Formed Graphical User Interfaces (GUIs) using python Tkinter library and MATLAB for emerging armament applications - **Exploding Bridge Wire and Explosive Welding.(Major)**
- Engineered the riot and fire detecting system for Terminal Ballistic Research Lab with CNNs .
- Achieved the accuracy of **94%** and **87%** for fire and riot systems respectively. (**Minor**)
- Presented my work in front of senior scientists committee. (**Only 5 projects are selected every summer out of 30**)

Internity Foundation

Machine Learning Mentor

New Delhi, India(Remote)

Jun. 2021-Aug. 2021

- Assist group of **10 trainees** with their coursework and doubts during weekend hours.
- Taught sentiment analysis paradigm using Large Movie Review Data(Stanford Dataset).

Indian Institute of Technology, Delhi

Summer Trainee

New Delhi, India

Jun. 2019-Jul. 2019

- Only **100 students** are selected from all over the India.
- Grasped the fundamental theory of Machine Learning, Cloud Computing, and Internet of Things(IoT).
- Developed a real-time IoT-based data analysing model to analyse the groundwater level of drought-prone fields.

UNDERGRADUATE RESEARCH (in the lab of Dr. Sudhakar Singh)

University of Allahabad (Dept. Electronics and Communication)

Undergraduate Researcher

Prayagraj, India

Oct. 2020-Present

- Explored various Air Pollution Monitoring and Predicting System. Compiled a review paper under the guidance of Dr. Sudhakar Singh.
- Forecasted PM2.5 of Delhi region studying and utilizing combination of stacked algorithms and improved the results by **5%.(Pre-Final year Dissertation)**
- Also contributed to three other research projects - Sentiment Analysis and Sarcasm Detection of Indian General Election Tweets, An Efficient Model for IoT Security using Adopted RSA and Sign Language Recognition System using TensorFlow Object Detection API. (**Research Work**)

PROJECTS

Crypto-new-summarizer

- Developed a pipeline to get summarized Yahoo news, sentiments, and URLs related to Bitcoin, Ethereum, and Dogecoin in the form of a CSV file. The scraped news was summarised using the financial summarization Pegasus model and automated with a Python script.

Face Mask Detection

- Designed real-time mask detection using of labellmg and Transfer Learning; mask detection using of IBM Watson Studio.

SKILLS INTERESTS

- **Programming** : Python, C/C++, MATLAB,HTML5/CSS, SQL, R, Arduino, Latex.
- **Libraries**: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, OpenCV, Keras, Tensorflow, NLTK.
- **Language**: Fluent in English and Hindi.

CERTIFICATES

- **Improving Deep Neural Networks: Hyperparameter tuning, Regularization, and Optimization** - [Coursera Certificate](#)
- **Structuring Machine Learning Projects** -[Coursera Certificate](#)
- **Neural Network and Deep Learning** - [Coursera Certificate](#)
- **Machine Learning** - [Coursera Certificate](#)

PUBLICATIONS

- Arpit Khare, **Amisha Gangwar**, Sudhakar Singh, Shiv Prakash, "Sentiment Analysis and Sarcasm Detection of Indian General Election Tweets", in Proc. International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC -2021), Springer, Dec. 17-18, 2021, BHU, Varanasi, India, Scopus Indexed. (**Accepted**)
- Sharvani Srivastava, **Amisha Gangwar**, Richa Mishra, Sudhakar Singh, "Sign Language Recognition System using Tensorflow Object Detection API" , in Proc. International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC -2021), Springer, Dec. 17-18, 2021, BHU, Varanasi, India, Scopus Indexed. (**Accepted**)
- S. K. Yadav, Sudhakar Singh, Uttam K Sharma, Pratibha Dixit, Shiv Prakash, **Amisha Gangwar**, "An Efficient Model for IoT Security using Adopted RSA", in Proc. Sixth International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2021), Dec. 17-18, 2021, Jaipur, India, Scopus Indexed. (**Accepted**)
- **Amisha Gangwar**, Sudhakar Singh, Richa Mishra, Shiv Prakash, "The State-of-the-Art in Air Pollution Monitoring and Forecasting Systems". (**Under Review**)

VOLUNTEERING EXPERIENCE

Youth Empowerment Foundation
Volunteer

New Delhi, India
Jan. 2021-Present

- Collected funds for daily wage workers and sanitary pads.
- Designed various social media posters for raising funds.
- Developing courses and lectures about basic computer (MS-Word, MS-Excel) applications for underprivileged children.

REFERENCES

- **Dr. Sudhakar Singh**- sudhakar@allduniv.ac.in
- **Dr. Shiv Prakash**- shivprakash@allduniv.ac.in
- **Dr. Richa Mishra**- richa_mishra@allduniv.ac.in