

# ANURAG TRIPATHI

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Email- [nowitsanurag@gmail.com](mailto:nowitsanurag@gmail.com)

A graduate in Electronics & Communication Engineering with over one year of experience in IT Risk Management and Artificial Intelligence. Proficient with Python and its web frameworks as well as Machine Learning and Deep Learning.

## EDUCATION

### Amity University

*Bachelor of Technology*

2017 - 2021

Noida, India

- Department: Electronics and Communication Engineering
- Relevant courses: Artificial Intelligence (CSE401), Artificial Intelligence and Machine Learning (ECE325), Neural Networks and Deep Learning (ECE326), Introduction to Cloud Computing (IT423), IoT Based System Design (ECE435), Digital Image Processing (ECE404)
- Thesis: Classification of Cervical cancer using Machine learning and Deep learning ([Report](#))
- Advisor: Ms. Anupama Bhan
- GPA: 7.84/10 (First Division)

## PROFESSIONAL EXPERIENCE

### Com Olho

*Product Manager*

Feb 2022-Oct 2022

Gurgaon, India

- Developed web application back end components with **Django** while communicating with clients to identify their needs/goals and work on meeting them.
- Obtained adequate experience in reviewing **Python** code for running the troubleshooting test-cases and bug issues.
- Experienced with front-end technologies, such as **HTML**, **CSS** for good UI development.
- Worked on the improvement of data protection and security by implementing face login using **deep learning** on company's platform.
- Database knowledge and python interaction with databases.
- Experienced with **selenium** web-based automation tools and developing under **Linux** environment.
- Designed and developed analysis systems to extract information from large scale data.
- ([LOR](#))

### Ennoventure Technologies Pvt. Ltd

*Software Engineer*

Aug 2021- Feb 2022

Bangalore, India

- Experienced with **flask** framework.
- Responsible for creating and testing APIs and deploying in **Azure cloud**.
- Updated and optimized 20+ stored procedures using **MySQL**.
- Developed SQL stored procedure, functions and style sheets to reduce data retrieval time by 50%.
- Re-structured schemas with 50+ tables to enhance data integrity.
- Responsible for training **machine learning** models on the company's patented product for identification when scanned from mobile app.
- Optimized **classification algorithms** for applications (vyu app on Google Play Store).

## INTERNSHIP EXPERIENCE

### Com Olho

Research Intern- Data Science

Feb 2021-June 2021

Gurgaon, India

- Use of high speed **computer vision** to study the effect of vehicular frequency over time to pollution.
- Implemented vehicle detection at national highway 8 (near Cybercity, Gurgaon) using **OpenCV** model.
- Model was running for 1 month to get the trend of frequency and density of vehicles observed with respect to real time air quality index.
- Study revealed that 75% of city pollution is contributed by vehicular density.
- ([Certificate](#))

### ClearExam

Software Developer

Dec 2020-Feb 2021

Delhi, India

- Extracted and collected data to create needed reports.
- Design and maintain **SQL** scripts.
- Validated accuracy of data to ensure database integrity.
- Created and optimized diverse SQL queries.
- Generate reports and spreadsheets detailing database changes and performance.
- ([Certificate](#)), ([LOR](#))

## PUBLICATIONS

- A. Arora, A. Tripathi and A. Bhan, "**Classification of Cervical Cancer Detection using Machine Learning Algorithms**," 2021 6th International Conference on Inventive Computation Technologies (ICICT), 2021, pp. 827-835, doi: 10.1109/ICICT50816.2021.9358570.
- A. Tripathi, A. Arora and A. Bhan, "**Classification of cervical cancer using Deep Learning Algorithm**," 2021 5th International Conference on Intelligent Computing and Control Systems (ICICCS), 2021, pp. 1210-1218, doi: 10.1109/ICICCS51141.2021.9432382.
- Reza, M. et al. (2021). **Automatic Diabetes and Liver Disease Diagnosis and Prediction Through SVM and KNN Algorithms**. In: Hassanien, A.E., Bhattacharyya, S., Chakrabati, S., Bhattacharya, A., Dutta, S. (eds) Emerging Technologies in Data Mining and Information Security. Advances in Intelligent Systems and Computing, vol 1300. Springer, Singapore. [https://doi.org/10.1007/978-981-33-4367-2\\_5](https://doi.org/10.1007/978-981-33-4367-2_5)

## PROJECTS

- **Design and fabrication of compact Ultra-Wide Band antenna.** — Designed and simulated a compact Ultra-Wideband antenna (29.5 mm x 30 mm) on CST software. Fabricated antenna on PCB; tested in an anechoic chamber. Plotted antennae parameters (S-parameter, polarization, power radiation etc.) from readings obtained deploying a Vector Network Analyzer
- **Implementation of Machine Learning using Python for Classification of Human Limb Movement using UWB antenna.** — Classified human limb movement using machine learning with python by fabricating on body ultra-wide band antennas which were used on the human limb to record readings for limb movements.
- **Face-X** — Recognition of faces by different algorithms and frameworks. Despite a variety of open-source face recognition frameworks available, there was no ready-made solution to implement. In this project all kinds of algorithms are implemented and even with various operations that can be implemented in a frontal face. The available algorithms processed only high-resolution static shots and performed sufficiently well. ([GitHub](#))
- **Face mask detection using YOLO Algorithm**— Detection of face mask using YOLO Algorithm. ([Blog](#)),([Project Link](#))
- **To display deep learning model on Pima Indians onset of diabetes binary classification problem.** ([Report](#))
- **Developing a CNN for MNIST handwritten digit classification.** ([Report](#)), ([PPT](#))

## ORGANIZATIONAL WORK

- Coordinating Committee, *Celebration of Belongingness*. ([Certificate](#)) April - May 2020
- Coordinating Committee, 7<sup>th</sup> IEEE SPIN. March 2020
- Volunteering Committee, 6<sup>th</sup> IEEE SPIN. ([Certificate](#)) March 2019
- Volunteering Committee, 5<sup>th</sup> IEEE SPIN. ([Certificate](#)) Feb 2018

## EXTRA CURRICULAR & SERVICES

### JAX Foundation NGO Volunteering

Oct 2020  
Noida, India

- Worked on the topic of Cancer Awareness.
- Working with community program leaders and advocates to make resources available to those in need.
- Taught unprivileged kids every weekend and introduced them to computers and the internet world.
- ([Certificate](#)), ([Report](#))

### Study Abroad Program NGO Volunteering

Nov-Dec 2019  
London, UK

- Attended lectures at Birkbeck, University of London, and Amity University, London for 5 weeks in the 5th semester.
- Opted elective Courses: **Global Information Technology** (CSIT219) and **Understanding Principles & Practices of Commercial Research** (IB206)
- In due course also visited Oxford University, Cambridge University, Northampton University, and Brunel University London for attending guest lectures.
- ([Certificate](#))

### Lakshy Foundation NGO Volunteering

April - Sept 2019  
Uttar Pradesh, India

- Reported child abuse in accordance with the legal standards of mandatory whistleblowers.
- Counseled individuals and families on mental health, substance abuse, and physical abuse and rehabilitation issues.
- Increased youth participation in prosaically activities by 40% through collaboration with therapeutic assistants and community resources.
- Worked in healthcare and assisted the fundraising team with writing grant proposals.
- Developed and created programs and monitored effectiveness towards individual participants in community workshops to promote various programs and educate the public about needs.
- Helped to develop an online platform for stray animal adoption.
- ([Experience Letter](#))

## CERTIFICATIONS

- Programming for Everybody (Getting Started with **Python**), *Michigan University*. ([Certificate](#)) Oct 2021
- Databases and **SQL** for Data Science with Python, *IBM*. ([Certificate](#)) Sep 2021
- **Machine Learning** with python, *IBM* ([Certificate](#)) July 2020
- Getting Started with **AWS** Machine Learning, *AWS*. ([Certificate](#)) April 2020
- **Machine Learning**, *Stanford University*. ([Certificate](#)) Oct 2019
- Introduction to the **Internet of Things** (IoT), *Alison*. ([Certificate](#)) Oct 2019
- Introduction to **Data Science**, *Alison*. ([Certificate](#)) Oct 2019

- **Deep Learning** Prerequisites: The Numpy Stack in Python, *Udemy* ([Certificate](#))

July 2019

## TEST SCORE

- IELTS: 7/9

Oct 2022

## TECHNICAL SKILLS

- **Languages**- Python, HTML, MATLAB, C++.
- **Frameworks**- Django, Numpy, Flask, Tensor flow
- **Platforms**- Git, AWS.
- **OS** - Linux, Windows

## SPOKEN LANGUAGES

- English (Full professional proficiency)
- Hindi (Mother Tongue)
- French (Elementary proficiency)