

# Anitya Kumar Gupta

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## EDUCATION

### Illinois Institute of Technology

*Masters of Science, Computer Science*

**Jan 2019 - Dec 2020**

*Chicago, Illinois, United States*

- **GPA:** 3.30

- **Achievements:** Worked for Non Profit Organisation

- **Coursework:** Advance Database Organisation, Advance Operating System, Software Project Management, Data Preparation and Analysis, Enterprise Web Applications, Machine Learning, Theory of Computation, Software Quality Management , Data Mining , Online Social Network Analysis

### Apeejay Styx University

*Bachelor of Technology, Cloud Computing*

**Aug 2014 - May 2018**

*Gurgaon, Haryana*

- **GPA:** 3.89

- **Achievements:** Gold Medalist, Worked for DRDO as Research Assistant

- **Coursework:** Compiler Design, Mobile Cloud Computing with Android, Agile Computing Environment, Big Data Analysis and Design, Evolution of Technology, Cloud Computing Graphics, Open Source System, System Programming, Artificial Intelligence, Software Engineering, Design and Analysis of Algorithms, Automata and Complexity Theory, Quantitative Methods for Business, World of Nanoscience, Information Retrieval System, Concept of OOP in C++, Object Oriented Technologies, Science, Technology and International Relations, User Interface, Operating System, Technical Communication, RDBMS, Data Structure & Algorithms, Discrete Mathematical Structures

## SKILLS

- **Languages:** SQL, SQLite, C++, React, Python, R, Q#, Swift

- **Tools & Frameworks:** Microsoft Office, Jupyter Notebook, GitHub COLAB, Visual Studio, Xcode, TensorFlow Quantum

## EXPERIENCE

### Shoolini University

*Ramanujan Research Associate*

**Jan 2023 - Present**

*Himachal Pradesh, India*

- Managed over 400 students by utilizing Microsoft Office for scheduling and communication, resulting in improved student engagement and satisfaction
- Advised the Vice Chancellor on course and program decisions using data analysis in Jupyter Notebook, leading to the successful implementation of new academic programs
- Conducted research in Quantum Computing, Machine Learning, and Deepfakes using Python, Qiskit and Q#, contributing to advancements in computational techniques
- Taught industry-oriented subjects like Foundation of Data Science, Machine Learning, Python Application, Statistics of Data Science, Generative AI, Data Science Optimization, and Soft Computing, empowering over 2000 students to apply these skills in real-world scenarios

### CodePath.org

*Senior Technical Support Representative*

**Jan 2021 - Jul 2023**

*San Francisco, CA*

- Selected amongst 40 candidates and promoted to senior position in January 2022.
- Assisted students from over 50 universities in efficiently debugging iOS, Cybersecurity, and Android issues using our platform, enhancing their problem-solving skills
- Conferred with users and conducted computer diagnostics to investigate and resolve technical issues, improving user satisfaction and system performance
- Prepared and evaluated software, recommending improvements and upgrades to enhance system efficiency and user experience

### CodePath.org

*Program Manager*

**Jan 2021 - Jul 2022**

*San Francisco, CA*

- Created 36 weekly algorithmic challenges designed to support learning of 88 full stack software developer interns selected to participate in internship programs at Salesforce, Course Hero, Future and Workday.
- Managed over 150 students and was selected for the position from among 50 candidates, ensuring effective learning and engagement
- Was promoted to the core team among 30 Teaching Assistants and collaborated with the curriculum team to enhance educational content
- Managed 100 students across different cohorts (SITE, FTL, and Meta Web), facilitating their learning in full stack development
- Developed various challenges to improve interns' problem-solving skills, enhancing their efficiency in tackling complex issues
- Created inclusive and equitable learning environments using Jupyter Notebook and Python to enhance student engagement and access, resulting in improved participation and understanding

### Defence Research and Development Organization

*Research Assistant and Project Leader*

**May 2017 - Jul 2018**

*Delhi, India*

- Selected amongst 100 candidates overall India
- Leading team of 5 members and handling the entire security norms

- Created the dynamic platform using neural models to detect the attacks and divert to the safest place.
- Research paper got selected stating Quick RCNN for question recognition and able to compare efficiency with other pre-existing Neural Networks.

## PROJECT

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### Summer Immersive Training Program:

*CodePath.org*

*California, United States*

- Developed an automated student enrollment system using Python.
- Integrated AI-based resume filtering to streamline candidate selection.
- Conducted training sessions on SQL, Python, and Flask for student participants.

### Anti - Vortex System for Medicare:

*Shoolini University*

*Solan, Himachal Pradesh*

- Created the Systems using Python and MATLAB.
- Implemented liquid level sensors within the anti-vortex device to monitor fluid levels, enabling real-time adjustments to flow rates and improving system responsiveness.

### Prediction of Wine Type using Deep Learning:

*Illinois Institute of Technology*

*Chicago, United States*

- Merged red and white wine datasets from the UCI Machine Learning Repository, introducing a binary 'type' label (1 for red, 0 for white) and performed data cleaning by removing missing values to ensure dataset integrity.
- Using Python with Libraries Matplotlib, Seaborn, NumPy, Keras.

## RESEARCH PAPERS

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- PK Varshney, N Sharma, V Bharara, S Kumar, A Gupta. Unmasking the Sentiments of People Towards Pandemic. *Bentham Science* | 2024
- G Gupta, A Rana, A Gupta. Demystifying Intrusion Detection Process using Machine Learning Techniques. *INDIACOM* | 2024
- S Jana, AK Gupta, NK Vashisht, A Jolly, V Pandey, I Singh. Defending Medicare: Unleashing the Power of Anti-Vortex. *Taylor & Francis Group* | 2023
- Akhilesh Sharma, Anitya Kumar Gupta, Vikas Pandey, Gourav Kumar Suman. Defense Mission Critical System: Threats and Security. *Solid State Technology* | 2020
- Anitya Kumar Gupta, Srishti Gupta. Machine Learning: Object Recognition Web Platform. *Journal of Computer Science & Systems Biology* | 2018
- Anitya Kumar Gupta, Srishti Gupta. Security issues in big data with cloud computing. *International Scientific Research Organization for Science, Engineering and Technology* | 2017

## Patents

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A Portable Dongle for Cyber Security and Protection | United Kingdom | 2023

Telemedicine Device for Patient Health Monitoring | United Kingdom | 2024

Cyber Risk Management | India | 2023

An IOT-Based Hematoflurometry Cancer Detecting Device | India | 2024

An IOT Powered Sensory Device for Real-Time Cardiovascular Assessment | India | 2024

Smart Wearable Device for Real Time Detection and Monitoring of Thermal Illness | India | 2024

## AWARDS

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- **Distinguish Scientist:** Government of India | August 2023
- **Top 100 Influential Leaders:** HypEdge India | May 2023
- **India Sparkling Leader:** Fox India Story | May 2023
- **Icon of India 2023:** Niti Ayog | March 2023
- **Ramanujan Fellowship:** Government of India | January 2023
- **Global Education Leader:** Education 2.0 USA | December 2022