

## EDUCATION

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<b>Jaypee University of Information Technology</b> B.Tech in Computer Science and Engineering, CGPA: 7.1/10.0	Solan, H.P, India 2017–Current
<b>Delhi Public School</b> $XII^{th}$ CBSE(PCM), Percentage: 93%	Ghaziabad, India 2015–2017
<b>DLF Public School</b> $X^{th}$ CBSE, CGPA: 9.2/10.0	Ghaziabad, India 2009–2015

## INTERNSHIPS

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<b>Jaypee University of Information Technology</b> Research Internship <ul style="list-style-type: none"><li>– Deep Neural Networks</li><li>– Research on Deep Neural Networks and Transfer Learning based approaches towards Medical Imaging and Environmental issues and thus published two International Research Papers.</li></ul>	Solan, H.P, India Summer 2020
<b>Udyog Yantra Technologies</b> Machine Learning Intern <ul style="list-style-type: none"><li>– Image Analysis of Food Items by AI on Cloud</li><li>– Designed a deep learning model for real-time food items classification and contour area detection of various ingredients present on the food for integrating Industry 4.0 Solutions to help machine manufacturers, system designers and process automation on the cloud.</li></ul>	Delhi, India Winter 2019

## PUBLICATIONS

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- [1] **H. Panwar**, P. Gupta, M. K. Siddiqui, R. Morales-Menendez, P. Bhardwaj, S. Sharma, and I. H. Sarker, “Aquavision: Automating the detection of waste in water bodies using deep transfer learning”, *Case Studies in Chemical and Environmental Engineering*, p. 100 026, 2020, ISSN: 2666-0164. DOI: 10.1016/j.cscee.2020.100026.
- [2] **H. Panwar**, P. Gupta, M. K. Siddiqui, R. Morales-Menendez, P. Bhardwaj, and V. Singh, “A deep learning and grad-cam based color visualization approach for fast detection of covid-19 cases using chest x-ray and ct-scan images”, *Chaos, Solitons & Fractals*, p. 110 190, 2020, ISSN: 0960-0779. DOI: 10.1016/j.chaos.2020.110190.
- [3] **H. Panwar**, P. Gupta, M. K. Siddiqui, R. Morales-Menendez, and V. Singh, “Application of deep learning for fast detection of covid-19 in x-rays using ncovnet”, *Chaos, Solitons & Fractals*, p. 109 944, 2020, ISSN: 0960-0779. DOI: 10.1016/j.chaos.2020.109944.

## EDITORIAL ACTIVITIES

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- **Reviewer** for IEEE International Conference on Innovative Technologies in Intelligent Systems and Industrial Applications CITISA, 2020
- **Reviewer** for Journal of X-Ray Science and Technology 2020

## PROJECTS

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- **Fast Detection of COVID-19** 2020  
**Goal:**  
*To detect COVID-19 in a real-time scenario with increased transparency while decreasing the computational time and cost using a smaller number of trainable parameters and hence establishing proposed deep learning models as an alternate to traditional RT-PCR testing*  
**Supervisors:**  
Dr. Pradeep Kumar Gupta  
Dr. Ruben Morales-Menendez  
**Outcomes:**  
DOI: 10.1016/j.chaos.2020.109944  
DOI: 10.1016/j.chaos.2020.110190
- **Automating the detection of waste in water bodies** 2020  
**Goal:**  
*Detection and classification of the different pollutants and harmful waste items floating in the oceans and on the seashores using our state-of-the-art deep learning model termed as AquaVision and our OpenSource dataset AquaTrash available on Github @ <https://github.com/Harsh9524/AquaTrash>*  
**Supervisors:**  
Dr. Pradeep Kumar Gupta  
Dr. Ruben Morales-Menendez  
**Outcomes:**  
DOI: 10.1016/j.cscee.2020.100026

## CERTIFICATES

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- **Neural Networks and Deep Learning** at Deeplearning.ai Issued Feb 2020  
*Credentials Q9DZ6JPCNWTY*
- **Machine Learning Summer Training** at Techstack, Saket Issued July 2019

## SKILLS

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- **Languages:** Python, C, C++, Java, LATEX
- **Frameworks:** Tensorflow, Keras, Pytorch, Fast.ai, Django, Flask
- **Other:** MS Excel, HTML, CSS

## LANGUAGES

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- **English:** language proficiency level: **C1**  
– **EXAM:** IELTS Academic Overall Band Score - **7.5**
- **Hindi:** language proficiency level: **native**

## EXTRACURRICULAR ACTIVITIES

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- Student Member at IEEE 2020–Current  
*Member ID: 96898738*
- Team Captain at University Basketball Team 2020–Current  
*Participated in various University level tournaments*

- Artic Code Vault Contributor at Github 2020  
*GitHub Archive Program - Preserving open source software for future generations.*
- Technical Writer at Towards Data Science 2019–2020  
*Wrote 4 articles for TDS with 20,000+ views on Medium.*
- Volunteer at Jaypee Youth Club 2019  
*Developed the website for JYC : [www.jyc.co.in](http://www.jyc.co.in)*

## REFERENCES

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### **Dr. Ruben Morales Menendez**

*Professor, Tecnológico de Monterrey, Monterrey, NL, Mexico*  
Dean of Graduate Studies at School of Engineering and Sciences  
Mail: [rmm@tec.mx](mailto:rmm@tec.mx)

### **Dr. Pradeep Kumar Gupta**

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### **Dr. Mohammad Khubeb Siddiqui**

*Post Doctoral Investigator, Tecnológico de Monterrey, Monterrey, NL, Mexico*  
School of Engineering and Sciences  
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