

# Aman Pawar

✉ pawaraman00021@gmail.com

☎ +91-8448624969

🌐 <https://github.com/AmanPawar9>

🌐 <https://www.linkedin.com/in/amanpawar1/>

🐦 <https://twitter.com/amanpawar>

🌐 <https://github.com/AmanPawar9/Portfolio>



## Education

- 2023– present    📖 **M.Tech, Indian Institute of Science, (IISc) Bengaluru**  
Major: *Bio Engineering* (Centre for Bio System Science and Engineering, BSSE)
- 2018– 2022    📖 **B.Tech, Delhi Technological University**( formerly Delhi College of Engineering )  
Major: *Civil Engineering*.  
Thesis title: *Predicting cyclic stress ratio of soil using AI Algorithms*.  
CGPA: 8.33
- 2017 – 2018    📖 **All India Senior School Certificate Examination (CBSE Class XII).**  
Kendriya Vidyalaya Sector-VII R.K.Puram, New Delhi.  
Subjects: *Physics, Chemistry, Mathematics, Biology, English, Physical Education*.  
Percentage: 81.66
- 2015 – 2016    📖 **Secondary School Certificate (CBSE Class X) Matriculate Examination.**  
Kendriya Vidyalaya Sector-VII R.K.Puram, New Delhi.  
Subjects: *Hindi, English, Mathematics, Science, Social-Science*  
CGPA: 10.00

## Employment History

- Aug 2022 – June 2023    📖 **Sr. Project Assistant (Tech), Indian Institute of Technology, (IIT) Delhi.**  
Technologies Worked: *Physics-informed ML, Graph Neural Networks, Learned Optimizers*.

## Internship & Project History

- Feb 2022 – May 2023    📖 **Teaching Assistant & Master's ML & AI Fellow Univ.AI**  
Summary: *Building the GHF Community under the guidance of Prof. Dr. Rahul Dave, Chief Scientist and Co-founder, Univ.AI Active into machine Learning & Deep Learning Contact: Dr. Rahul Dave, rahuldave@univ.ai*
- June 2021 – July 2021    📖 **In House- T&P Dpt. Delhi Technological University (Formerly DCE)**  
Summary: *Under Guide: Ms. Lovleen Gupta, Assistant Prof., Department of Environmental Engineering, DTU Co-guide: Dr. Jay Prakash, Post. Doc, Visiting Research Scientist Washington University in St. Louis, USA Project Worked on: "Predicting PM 2.5 (AQI assimilation's) of New Delhi by using Merra2, (satellite Data NASA) via Artificial Neural Networks" Contact: Ms Lovleen Gupta, lgupta@dce.ac.in +91-9818083877*

## Internship & Project History (continued)

Nov 2020 – March 2021

### ■ Structural Intern, Power Division S&S Consultants

Summary: Structural design of powerhouses for hydropower projects, depending on the type adopted, the powerhouses are designed using state of the art software's like ANSYS, STAAD Pro etc. Contact: Mr. Honey Mehra, snsconsults2019@gmail.com - +91-9818093546

July 2020 – Oct 2020

### ■ Multidisciplinary Centre for Geoinformatics |MCG| Delhi Technological University (Formerly DCE)

Summary: Worked under the guidance of Prof. K.C. Tiwari Ms. Shalini Gakhar on Analysing the Urban Boundaries of Delhi, India methods being adopted in the field of Geoinformatics - GIS Remote Sensing, Satellite Geodesy and GPS/GNSS. Contact: Contact: Prof K.C. Tiwari, kcchtphd@gmail.com - +91-9971862304

Dec 2019 – Jan 2020

### ■ Quality Assurance 3rd Party DTU & CPWD, Govt. Of India

Summary: Worked under, DTU in CPWD, under the Executive Engineer, Other project division-2(GNCTD), Mandoli Jail Complex, Delhi-96. The project worked on: CO 144 Nos. Temporary Courtroom Construction in existing complexes of Saket (silt+G+3), Tis Hazari(Silt+G+3), Karkardooma(G+4) Contact: Mr. BRG Robert, brgrobert@gmail.com - +91-9910681858


May 2019 – May 2019

### ■ Property Surveyor Corporate Infra

Summary: Worked under, Corporate Infra, plot 42, sector 13 Dwarka. Project Worked on Sector 85/89 New Gurgaon, Orris Aster Court Orris Market 89 Contact: Mr. Ramesh - +91-9999901878

## Research Publications

### Journal Articles

- 1 P. Aman, J. Aman, P. Vikas, C. Prem Kumar, V. Tikendra Nath, and M. Kundan, "Artificial intelligence algorithms for prediction of cyclic stress ratio of soil for environment conservation," *Environmental Challenges*, vol. 12, 2023, ISSN: 2667-0100.  DOI: <https://doi.org/10.1016/j.envc.2023.100730>.

### Books and Chapters

- 1 S. Raju, G. Devashish, P. Aman, S. Sunil, and G. Chandan, Eds., *Geotechnical Characteristics of Soils and Rocks of India*. London: CRC Press, 2021, ISBN: 9781003177159.






## Skills

ML/DL Frameworks ■ Graph Neural Networks, Physics-DL, Reinforcement Learning  
■ Pytorch, Tensorflow, Jax





## Miscellaneous Experience

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### Awards and Achievements




- 2021  **Innova Techno-management Festival** 2nd position in the CAD CRAFT Competition of INNOVA'21- The Techno-Management festival, DTU between March 2021 - April 2021.
- 2019  **IIT Bombay & I3 India technologies, IOT challenge 2019** Merit Certificate from IIT Bombay and I3 India technologies, for outstanding performance in IOT challenge 2019.
- 2017  **Dialog with organs : a stepping stone of adolescent health** Certificate from Vardhaman Mahavir Medical College & Safdarjung Hospital as Delegate in Dialog with organs.
- 2016  **ATAL Innovation Challenge** Participated in the competition with my team and ensured the establishment of Atal Tinkering Laboratories in the School (one of the first schools of country to get ATAL Tinkering Labs).
- 2015  **National Centre of Financial Education (NCFE- NFALT)** Merit Certificate from National Centre of Financial Education (NCFE-NFALT).

### Certification & Projects



- Dec 2022  **Certificate of Excellence AI-5: PRODUCTIONIZING AI.** Topics Covered: Industrial AI concepts & practices, and development of a full-fledged AI application
- Aug 2022  **Certificate of Completion AI-3: LANGUAGE MODELS.** Topics Covered: Natural Language Processing fundamentals, text preprocessing techniques, language modeling, sentiment analysis, named entity recognition, text classification, machine translation, and NLP applications.
- June 2022  **Certificate of Completion DS-1: DATA SCIENCE BASICS.** Topics Covered: Introduction to data science, data collection and preprocessing, exploratory data analysis, statistical analysis, machine learning fundamentals, regression analysis, classification algorithms, data visualization, and basic data science techniques and applications.+ **Best Project Certificate**
- April 2022  **Certificate of Excellence AI-2: CONVOLUTIONAL NEURAL NETWORKS** Topics Covered: Image processing, feature extraction, object detection and recognition, image segmentation, deep learning for computer vision, convolutional neural networks (CNNs), transfer learning, facial recognition, image classification, and computer vision applications.+ **Best Project Certificate**

## Miscellaneous Experience (continued)

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- Feb 2022        **Certificate of Excellence AI-1: BASICS OF AI & ML.** Topics Covered: Introduction to machine learning and artificial intelligence, supervised and unsupervised learning algorithms, linear regression, logistic regression, decision trees, random forests, support vector machines, clustering algorithms, neural networks, deep learning, model evaluation and validation, and applications of ML and AI in various domains.
- Oct 2021        **Introduction to Deep Learning.** completed with honors authorized by Higher School of Economics, National Research University and offered through Coursera
-     **Practical Reinforcement Learning.** completed with honors authorized by Higher School of Economics, National Research University and offered through Coursera

## Volunteering and Positions of Responsibility

- Dec 2022        **Industry Day 2022 Celebration IIT Delhi.** Industry Day 2022, in its fourth annual edition, aims to harness and promote the power of Industry-Academia collaborations and showcase cutting-edge technology development being conducted by our research community in the pursuit to deliver impactful techno-social and techno-commercial solutions with a global approach
- July 2018 - April 2019        **NGO Leaders for Tommorrow.** Awareness Programmes Anti-Drug, Anti-Ragging, Cleanliness Drives, Adopt a Plant, Serving Happiness, Visit for Compassion. Kuttanad Campaign, Books & stationary for Flood affected areas of Kuttanad, Kerala.

## References

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Available on Request