Aman Pawar

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Education

2023– 2025 **Masters of Technology, Indian Institute of Science, (IISc) Bengaluru, India**
Major: *Bioengineering, Department of Bioengineering*
Thesis title: *Electronic Health Records for Individuals with Diabetes is All You Need*
CGPA: *9.4/10*

June–2024 **OxML2024, Oxford Machine Learning Summer School, United Kingdom**
Major: *MLx Health & Bio and MLx Representation Learning*
Technologies Learnt: *Advanced Representation Learning & Reinforcement Learning course featuring futuristic, state-of-the-art research with applications to health and biology*

2018– 2022 **Bachelors of Technology, Delhi Technological University, India**
Major: *Civil Engineering*
Thesis title: *Predicting cyclic stress ratio of soil using AI Algorithms*
CGPA: *8.33 /10*

2017 – 2018 **All India Senior School Certificate Examination (CBSE Class XII)**
Kendriya Vidyalaya Sector-VII R.K.Puram, New Delhi, India
Subjects: *Physics, Chemistry, Mathematics, Biology, English, Physical Education*
Percentage: *81.66 /100*

2015 – 2016 **Secondary School Certificate (CBSE Class X) Matriculate Examination**
Kendriya Vidyalaya Sector-VII R.K.Puram, New Delhi, India
Subjects: *Hindi, English, Mathematics, Science, Social-Science*
CGPA: *10.00 /10*

Employment History

July 2025 – Present **CEO-Office, Ola Electric Technologies, Pvt. Ltd., Bangalore, India**
AI Strategy & Business Executive: *Turning dreams into reality.*

i) *Formulated the **core business strategy & AI framework for the commercialization roadmap for Krutrim's custom AI silicon**, aligning hardware development with market opportunities.*

ii) *Led high-priority, cross-functional initiatives by acting as the strategic link between the CEO's office and Engineering, Product, and ML teams.*

iii) *Identified and analyzed new growth vectors, including strategic partnerships and market expansion, to enhance Ola's AI ecosystem.*

Employment History (continued)

May 2025 – June 2025

Research Intern, Intelligent Edge Systems Pvt. Ltd., Bangalore, India
Key Intellectual Property Disclosures developed: *Worked on the development of deep learning automation pipelines.*

i) *Automated Synthesis of Optimized Data Streaming Pipelines for Deep Learning Model Deployment based on User Input.*

ii) *Field-Trainable Smart Camera System with Automated AI Optimization and Generative AI Capabilities.*

iii) *Vendor-Agnostic IoT Platform: Generative AI Development and Modular, Interface-Driven Hardware Adaptation.*

Contact: Yashwant Dagar (Founder & CEO), yashwant@intelligentedgesystems.com

May 2024 – Aug 2024

DL Research Intern, Siemens Healthcare Pvt. Ltd., Bangalore, India
Project Worked: *Causal Inference & Discovery, Probabilistic Graphical Models - SCMs, Graph Neural Networks. Machine Learning and Deep Learning research on Causal Discovery and Inference for Healthcare Data using Graph Neural Networks.* ***Submission of intellectual property disclosures from the project***

- *i) Systems, Apparatuses, And Methods For Disease Prediction*

Contact: Dr. Manohar Kollegal (VP), manohar.kollegal@siemens-healthineers.com

Aug 2022 – June 2023

Sr. Project Assistant (Tech), Indian Institute of Technology, (IIT) Delhi
Project Worked: *Focused on studying the dynamics of articulated rigid bodies through Graph Neural Networks and optimizing truss structures. Employed advanced techniques in physics-informed ML to enhance the understanding and modeling of complex structural systems.*

Contact: Prof. N.M. Anoop Krishnan, krishnan@civil.iitd.ac.in & Prof. Sayan Ranu, sayanranu@cse.iitd.ac.in

Research Publications

Journal Articles

1. **A. Pawar**, A. Jolly, V. Pandey, C. Prem Kumar, V. Tikendra Nath, and K. Meshram, "Artificial intelligence algorithms for prediction of cyclic stress ratio of soil for environment conservation," *Environmental Challenges*, vol. 12, 2023, ISSN: 2667-0100. DOI: 10.1016/j.envc.2023.100730.

Books and Chapters

1. R. Sarkar, B. C. Sujeewon, and **A. Pawar**, *Landslide Susceptibility Mapping Using Satellite Images and GIS-Based Statistical Approaches in Part of Kullu District, Himachal Pradesh, India*. Singapore: Springer Nature Singapore, 2024, pp. 251–287, ISBN: 978-981-99-7707-9. DOI: 10.1007/978-981-99-7707-9_14.
2. R. Sarkar, D. Gupta, **A. Pawar**, S. Saha, and C. Ghosh, Eds., *Geotechnical Characteristics of Soils and Rocks of India*. London: CRC Press, 2021, ISBN: 9781003177159. DOI: 10.1201/9781003177159.

Skills

ML/DL — Graph Neural Networks, Physics-informed-DL, probabilistic DL, Causality, Computer Vision, Reinforcement Learning, NLP & LLMs, Deep Generative models, Representation learning, Computational & Systems Biology

Frameworks — Pytorch, PyTorch-Geometric, TensorFlow, Jax, Flax, Optima, DevOps, Continuous Integration & Development, Docker, Kubernetes

Internship & Project History

Feb 2022 – May 2023 — **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*

Nov 2020 – March 2021 — **Structural Intern, Power Division S&S Consultants**
Summary: *Structural design of powerhouses using AI 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*

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*

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*

Miscellaneous Experience

Awards and Achievements

2024 — **ANRF Travel Grant**, *Selected student for international travel by Anusandhan National Research Foundation, Govt. of India.*

2023 — **Siemens Healthineers Fellowship**, *Selected student from Department of Bioengineering, IISc.*

T&P Coordinator OCCAP, IISc, *Elected Student from the Department of Bioengineering, IISc.*

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.*

Miscellaneous Experience (continued)

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).*

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 Tommorow**. *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

Prof. Siddharth Jhunjhunwala
siddharth@iisc.ac.in
Dept. of Bio Engineering
Associate Professor, (IISc)

Prof. N M Anoop Krishnan
krishnan@civil.iitd.ac.in
Dept. of Civil Engineering
Associate Professor, (IIT-Delhi)

Prof. Ananth Govind Rajan
ananthgr@iisc.ac.in
Dept. of Chemical Engineering
Assistant Professor, (IISc)