JOYJIT CHATTERJEE

CEng(India), MIET(UK), MIEEE(U.S.A), AMIE(India)

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Personal Website: https://joyjitchatterjee.github.io **LinkedIn:** www.linkedin.com/in/joyjitchatterjee

PhD. Computer Science Student presently working on Tackling Climate Change with Machine Learning, Electronics and Communication Engineer (Gold Medalist), and a lifelong learner on the quest for knowledge

EXECUTIVE SUMMARY

⇨ **Presently pursuing PhD. Computer Science at University of Hull, United Kingdom under a PhD. Scholarship by Aura Innovation Centre and University of Hull.**

⇨ **Published an array of research papers in Computer Science & Engineering (including in leading AI conferences/workshops such as NeurIPS, KDD, IJCNN, ECAI etc., and reputed journals by Wiley, IOP etc.), filed patents and delivered talks at leading research institutions globally (such as Carnegie Mellon University, ETH Zurich etc.).**

⇨ **Programme committee member and reviewer for leading international conferences/workshops (such as ICLR Climate Change AI, ECIS, etc.), high-impact international journals, and authored books and articles in leading global venues.**

⇨ **Recipient of several honors and awards throughout academic career, including grants, scholarships and awards from industry, academia and governments.**

⇨ **Possess an excellent and an outstanding academic record throughout academic career.**

⇨ **Research Interests span Deep Learning, Natural Language Generation, Time-Series Analysis and Signal Processing.**

ACADEMIC CREDENTIALS

PhD. Computer Science; 2018-2021 (Expected September 2021)
University of Hull, United Kingdom
Research Project: Autonomous Prediction and Scheduling of Operations and Maintenance for Offshore Wind Farms (PhD. Scholarship Research Cluster as a part of Aura Innovation Centre and University of Hull)
Supervisors: Dr. Nina Dethlefs (University of Hull) and Dr. Alex Turner (University of Nottingham)

Post Graduate Diploma in Research Training; January 2021
University of Hull, United Kingdom
Pursuing 120 credits at Level 7 (Masters) offered by the Doctoral College as a part of the Postgraduate Training Scheme at the University of Hull designed to equip postgraduate researchers with the relevant skills and training to pursue cutting-edge research.

Oxford Artificial Intelligence Programme; August 2020
Saïd Business School, University of Oxford, United Kingdom
Professional Certificate in understanding AI, its potential for businesses, informed opinion of applications, implications and limitations to drive intelligent machines and AI forward in organizational contexts.
Final Grade: 85%

B. Tech. (Electronics and Communication Engineering); May 2018
Amity University, Noida, India (University Topper & Gold Medalist)
First Division with Distinction
CGPA: 9.68/10

Senior Secondary School: Grade 12th (Non Medical, Science); 2014
Bal Bharati Public School, Pitampura, Delhi, India CBSE Board with 93.8%
First Class with Distinction
97/100 in Mathematics, 95/100 in Chemistry, 99/100 in Economics

High School: Grade 10th; 2012
Bal Bharati Public School, Pitampura, Delhi, India CBSE Board with 9.8 CGPA
10/10 Grade Point in Mathematics and Science

Summer School
Oxford Machine Learning Summer School (OxML); August 2020
Saïd Business School, University of Oxford, United Kingdom and Canadian Institute For Advanced Research (CIFAR)
Participated in the highly selective (Acceptance Rate ~ 11%) OxML Summer School, with a special focus on medicine and interactions with world-renowned researchers and lecturers in ML (and biomedicine). The school provided an unique opportunity to learn about past, present and future of ML research in healthcare (from EHR, imaging, and genetics to wearable, drug discovery and more).

English Language Proficiency

IELTS; January 2017
Overall Band Score- 7.5/9
(L:8/9, R:8/9, W:6.5/9, S:8/9)

WORK EXPERIENCE

PhD. Student-Researcher, University of Hull, United Kingdom (Sep 2018-Present)
- Applying Deep Learning techniques to time-series data for bridging the gap between accuracy and transparency in conventional black-box machine learning models.
- Utilising Natural Language Generation and Temporal Causal Inference methods for developing expert decision support system for engineers & technicians in the offshore wind industry.
- Working as a part of the Aura Wind Energy PhD. Cluster (https://aurawindenergy.com) and Big Data Analytics Research Group at the University (https://bda-hull.github.io).

Research Intern, **Tamkang University, Taipei, Taiwan** (Jan-March 2018)
- Worked in the area of machine learning, pattern recognition and signal processing on a project funded by the Ministry of Education, Taiwan as a part of TEEP@India research program.
- Designed a software application for recognizing emotions in human speech signals, by applying data analytics and signal processing techniques.
- Received letter of appreciation from Prof. (Dr.) Hui-Huang Hsu, Dean, College of Engineering for outstanding contribution to the project.
- The results were published in the 3rd IEEE Cyber Science and Technology Congress, Athens, Greece, August 2018.

System Verilog Trainee, Mentor Graphics (A Siemens Business), Noida, India (May-July 2017)
- Selected for the highly prestigious internship opportunity among 30 students from across India as a part of Mentor Higher Education Program on Verification of Electronic Design and Systems using System Verilog.
- Used Verilog for Electronic Systems Design in various projects, including Universal Asynchronous Receiver Transmitter, 8-bit and 16-bit RISC Microprocessor, First-In-First-Out (FIFO) buffer.
- Applied System Verilog for testing and debugging of the LC-3 Test Bench Environment as a whole, and the Fetch, Decode, Execute and Controller Units separately.
- The System Verilog projects were documented and used for ensuring further improvements in the designs for future interns.

PUBLICATIONS

JOURNAL ARTICLES

⇨ **Chatterjee, J.,** Dethlefs, N., "Temporal Causal Inference in Wind Turbine SCADA Data Using Deep Learning for Explainable AI", IOP Journal of Physics: Conf. Series, September 2020. (To appear)
⇨ **Chatterjee, J.,** Dethlefs, N. Deep learning with knowledge transfer for explainable anomaly prediction in wind turbines. Wind Energy. April 2020; 23: 1693– 1710. **Impact Factor: 3.125**

CONFERENCE/WORKSHOP PAPERS

⇨ **Chatterjee, J.,** Dethlefs, N., "Deep Reinforcement Learning for Maintenance Planning of Offshore Vessel Transfer", 4th International Conference on Renewable Energies Offshore (RENEW), Lisbon, Portugal, October 2020. (To appear)

- Sharma, M., Sehgal, J., **Chatterjee, J.,** Mehra, A., "The Promise of Deep Learning for Indian Roads: A Comparative Evaluation of Architectures", International Conference on Machine Intelligence and Smart Systems (MISS), Published in "Springer Proceedings on Algorithms for Intelligent Systems", Gwalior, India, September 2020. (To appear)
- **Chatterjee, J.,** Dethlefs, N., "Explainable AI for Intelligent Decision Support in Operations & Maintenance of Wind Turbines", Proceedings of the Doctoral Consortium, European Conference on Artificial Intelligence (ECAI), Santiago, Spain, August 2020. (To appear) **CORE RANKING: A**
- **Chatterjee, J.,** Dethlefs, N., "The Promise of Causal Reasoning in Reliable Decision Support for Wind Turbines", Fragile Earth: Data Science for a Sustainable Planet Workshop (FEED) at 26th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), San Diego, California, USA, August 2020. (To appear) **CORE RANKING: A***
- **Chatterjee, J.,** Dethlefs, N., "A Dual Transformer Model for Intelligent Decision Support for Maintenance of Wind Turbines", IEEE International Joint Conference on Neural Networks (IJCNN), Glasgow, UK, July 2020. (To appear) **CORE RANKING: A and part of WCCI (World's Largest Technical Event in Computational Intelligence)**
- Sehgal, J., Sharma., M, **Chatterjee, J.,** Mehra, A., "Comparative Study of Deep Learning Models for Vehicle Detection in an Unconstrained Road Scenario", IEEE International Conference on Communication and Signal Processing (ICCSP), Chennai, India, July 2020. (Accepted)
- **Chatterjee, J.,** Dethlefs, N., "Natural Language Generation for Operations and Maintenance in Wind Turbines", Tackling Climate Change with Machine Learning Workshop at 33rd International Conference on Neural Information Processing Systems (NeurIPS), Vancouver, Canada, December 2019. **CORE RANKING: A***
- **Chatterjee, J.,** Dethlefs, N., "Transparent Deep Learning and Transductive Transfer Learning: A New Dimension for Wind Energy Research", WindEurope Offshore 2019, Copenhagen, Denmark, November 2019. **Largest Offshore Wind Conference in Europe**
- **Chatterjee, J.**, Saxena, A., Gupta, V., Vyas, G. and Mehra, A., "A Robust Automatic Algorithm for Statistical Analysis and Classification of Lung Auscultations", 6th IEEE International Conference on Signal Processing and Integrated Networks (SPIN), Noida, India, March 2019.
- **Chatterjee, J.** and Dethlefs, N., "A Deep Learning Approach Towards Prediction of Faults in Wind Turbines", Extended Abstract in Northern Lights Deep Learning Workshop (NLDL), Tromso, Norway, January 2019.
- **Chatterjee, J.**, Mukesh, V., Hsu, HH., Vyas, G., and Liu, Z., "Speech Emotion Recognition Using Cross-Correlation and Acoustic Features", 3rd IEEE Cyber Science and Technology Congress, Athens, Greece, August 2018.
- **Chatterjee, J.**, Thakur, A. and Mukesh, V., "A Novel Approach Towards Identification Of Alcohol And Drug Induced People", 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT), Bengaluru, India, May 2018.
- **Chatterjee, J.,** Saxena, A., Mehra, A., Vyas, G., and Mukesh, V., "Verification and Debugging of LC-3 Test Bench Environment using System Verilog", 2nd IEEE International Conference on Electronics, Communication and Aerospace Technology (ICECA), Coimbatore, India, March 2018.
- **Chatterjee, J.**, Saxena, A., Vyas, G. and Mehra, A., "A Computer Vision Approach for Detection of Parkinson Disease using Brain CT Images", 2nd IEEE International Conference on Computing Methodologies and Communication (ICCMC), Tamil Nadu, India, February 2018.
- **Chatterjee, J.**, Saxena, A., Vyas, G., and Mehra, A., "An Efficient Real-Time Approach For Detection of Parkinson's Disease", 17th International Conference on Intelligent Systems Design and Applications (ISDA), Organized by Machine Intelligence Research Labs, USA and Published in "Springer Proceedings on Advances in Intelligent Systems and Computing", Delhi, India, December 2017.
- **Chatterjee, J.**, "Modelling of a GaAs based Infrared LED with high efficiency and minimal computation time", IEEE International Conference on Emerging Trends & Innovation in ICT (ICEI), Pune, India, May 2017.
- **Chatterjee, J.**, Saxena, A., Vyas, G., and Hsu, HH. "A Novel Approach towards identification of in-flight situation based on Air Traffic Control Conversations", 4th IEEE International Conference on Signal Processing and Integrated Networks (SPIN), Noida, India, February 2017.
- **Chatterjee, J.**, Saxena, A. and Vyas, G., "An automatic and robust system for identification of problematic call centre conversations", IEEE International Conference on Microelectronics and Telecommunication Engineering (ICMETE), Ghaziabad, India, September 2016.
- Chaabra, P., Vyas, G., **Chatterjee, J.** and Voss, SH., "An Automatic system for recognition and assessment of anger using Adaptive Boost", IEEE International Conference on Microelectronics and Telecommunication Engineering (ICMETE), Ghaziabad, India, September 2016.

ABSTRACTS

- **Chatterjee, J.** and Dethlefs, N., "Transparency, Interpretability and Data Availability: Key Challenges for Tackling Climate Change with AI", Workshop on Data Science in Climate and Climate Impact Research, ETH Zurich, Switzerland, August 2020.

PATENTS

- Thakur, A., Aggarwal, P. and **Chatterjee, J.** (2018), "Automatic cooling system-based rabbit hutch", Complete specifications filed with the Indian Patent Office (Application Number 201811028105).
- **Chatterjee, J.** and Thakur, A. (2018), "An intelligent emergency trigger bracelet for alcohol and drug induced people", Complete specifications filed with the Indian Patent Office (Application Number 201811002051).
- **Chatterjee, J.** (2017), "User friendly HelPen for assisting visually challenged", Complete specifications filed with the Indian Patent Office (Application Number 201711011221).

TALKS / PRESENTATIONS DELIVERED

- Upcoming talk on "Transparency, Interpretability and Data Availability: Key Challenges for Tackling Climate Change with AI" at the ETH Zurich, Switzerland Workshop on Data Science in Climate and Climate Impact Research in August 2020.
- Delivered a talk on "Transparent, Accurate and Scalable AI for Intelligent Decision Support in O&M of Wind Turbines" at the Carnegie Mellon University (CMU) Symposium on AI and Social Good, Pittsburgh, Pennsylvania in April 2020. **(Prestigious Symposium on addressing challenging societal problems through AI)**
- Delivered a talk on "Autonomous Prediction and Scheduling of Operations & Maintenance for Offshore Wind Farms" at the Postgraduate Research Seminar, Dept. of Computer Science & Technology, University of Hull, UK in February 2020.
- Presented a poster on "Natural Language Generation for Operations and Maintenance in Wind Turbines" at the Tackling Climate Change with Machine Learning Workshop at 33rd International Conference on Neural Information Processing Systems (NeurIPS), Vancouver, Canada in December 2019. **CORE RANKING: A***
- Presented a poster on "Transparent Deep Learning and Transductive Transfer Learning: A New Dimension for Wind Energy Research" at WindEurope Offshore, Copenhagen, Denmark in November 2019. **Largest Offshore Wind Energy Conference in Europe**
- Presented and delivered Research Talk on "A Deep Learning Approach towards prediction of Faults in Wind Turbines" at Northern Lights Deep Learning Workshop, UiT-The Artic University of Norway, Tromso in January 2019 at Tromso, Norway.
- Presentation of Research Paper in the "International Conference on Recent Trends in Electronics, Information & Communication Technology" organized by IEEE at Sri Venkateshwara College of Engineering, Bengaluru, India in May 2018.
- Presented a Research Paper in the "International Conference on Electronics, Communication and Aerospace Technology" organized by IEEE at RVS Technical Campus, Coimbatore, India in March 2018.
- Presented a Research Paper in the "International Conference on Computing Methodologies and Communication" organized by IEEE at Surya Engineering College, Tamil Nadu, India in February 2018.
- Virtual Presentation of a Research Paper in the "International Conference on Intelligent Systems Design and Application" organized by Springer and MIR Labs, USA at South Asian University, New Delhi (SAARC Sponsored International University) in December 2017.
- Presented a Research Paper in the "International Conference on Trends in Electronics and Informatics" organized by IEEE, USA at SCAD College of Engineering & Technology (Affiliated to Anna University), Tirunelveli, Chennai, India in May 2017.
- Presented 2 Research Papers in the "International Conference on Microelectronics and Telecommunication Engineering" organized by IEEE USA at SRM University, Uttar Pradesh, India in September 2016.

TECHNICAL SKILLS

- Good Knowledge of Programming in Python for Data Science
- Proficient in Machine Learning and Deep Learning for time-series data, regression and classification algorithms, and causal inference.
- Good experience in applying Natural Language Generation techniques for data to text neural machine translation (NMT) applications.
- Proficient in using MATLAB for various simulation purposes
- Possess good knowledge of programming in C and C++
- Basic knowledge of Docker
- Adequate Knowledge of JavaScript
- Adequate Knowledge of HTML and CSS
- Basic Knowledge of Programming in R
- Basic Knowledge of CISCO Packet Tracer
- Proficient in Programming in Verilog and System Verilog for Electronic Design and Automation and Verification

- Basic Knowledge of Programming in JAVA SE (Core JAVA)
- Adequate knowledge of Linux OS
- Basic Knowledge of Octave
- Possess good knowledge of Assembly Language Programming (8051 Microcontroller and x86 Processors)
- Proficiency in Programming in VHDL
- Proficient in LabView and Orcad for Electronic Design and Simulation
- Proficient in Control Systems and Digital Electronics
- In- depth knowledge of MS Office.

CONFERENCES/WORKSHOPS/EVENTS ATTENDED

- Participated in R&D discussion meeting with Japanese companies Chubu Electric and Jera Power at the Aura Innovation Centre, Hessle, United Kingdom in December 2019.
- Participated in the "Power Available Hackathon" organized by Offshore Renewable Energy Catapult (ORE Catapult) and Scottish Power Renewables at the Glasgow Science Centre, Glasgow in October 2019, representing the University of Hull in a team of 2.
- Attended "Passport to University Teaching Workshop" organized by the Learning and Teaching Enhancement Directorate, University of Hull, UK in March 2019.
- Attended "windPRO 1 day course" organized by Paul Hannah, UK & Ireland Agent for EMD windPRO held at the University of Hull, UK in March 2019.
- Participated in "GPU Programming using CUDA" Workshop organized at University of Hull in January 2019.
- Participated in "Deep Learning Winter School" organized at University of Hull, UK in January 2019.
- Participated in "Writing Critically" Webinar organized by Dr. Steve Casey, Library Skills Advisor, Library Skills Team, University of Hull, UK in October 2018.
- Participated in "Being an Open Researcher" Online Course offered by the Library Skills Team, University of Hull, UK in October 2018.
- Attended "The Modern Researcher: Essential Knowledge" Full Day Conference organized by the Graduate School, University of Hull, UK in October 2018.
- Attended Expert Talk on "Electronic Design and Verification" at Amity University, Noida, India conducted by Mr.Jitendra Aggarwal, Staff Emulation Engineering, ARM in August 2017.
- Attended Workshop on "Future Aspects and Career in Drone and Simulator Industry" at Amity University, Noida, India conducted by Mr. Kamal Sharma, Managing Director, Kambill Systems in August 2017.
- Attended Expert Talk on "Smart Card Technology and Quality" at Amity University, Noida, India conducted by Mr. Gagan Juneja, Quality Chief Engineer, TWY Pvt. Ltd in August 2017.
- Attended Workshop on "Software for Electronics and Allied Industry" at Amity University, Noida, India conducted by Ms. Gunjal Goel, Senior Principal Software Engineer, Cadence in August 2017.
- Attended Expert Talk on "Fundamentals of timing in Digital Circuits" at Mentor Graphics, Noida (A Siemens Business) conducted by Mr. Sulabh Kumar Khare, Lead Member, Consulting Staff, Mentor Graphics in July 2017.
- Attended Workshop on "FPGA Architecture and Synthesis" at Mentor Graphics, Noida (A Siemens Business) conducted by Mr. Aman Rana, Team Lead, Precision Synthesis, Mentor Graphics in July 2017.
- Attended Guest Talk on "Functional Safety in Automotive Industry" at Mentor Graphics, Noida (A Siemens Business) conducted by Mr. Amit Jain , Senior Verification Manager, NXP in July 2017.
- Attended Workshop on "Veloce and Low Power Verification" at Mentor Graphics, Noida (A Siemens Business) under the aegis of Mr. Gaurav Saharawat, Staff Engineer, R&D Emulation, Mentor Graphics in June 2017.
- Industrial Interaction with CTO and MD of Samsung R&D during R&D deliberations (One among total two students selected from the department by ATPC, Amity University, Noida) in February 2017.
- Presented a Research Paper in the "International Conference on Signal Processing and Integrated Networks", organized by IEEE USA at Amity University, Noida in academic collaboration with IDeTIC, Spain, Signal Processing Laboratory, Czech Republic and Charles Sturt University, Australia in February 2017.
- Attended the Ericsson Professional Training Program in IP and Telecom Basics at Amity University, Noida, India in February 2017.
- Attended the "International Conference on Narrativising Indigenity- Looking to the Future" organized by Centurion University of Technology and Management, Odisha in association with Deakin University, Australia in February 2016.

CERTIFICATIONS
- Certificate in Docker for Data Scientists from LinkedIn Learning in July 2020.
- Certificate in Introduction to Neo4j from Neo4j GraphAcademy in May 2020.

- Certificate in The Digital Teacher from University of Hull, UK in May 2020.
- Certified Peer Reviewer from Publons Academy (Web of Science) in February 2020.
- Certificate in The Digital Researcher from University of Hull, UK in June 2019.
- Certificate in Jisc discovery tool from Jisc in June 2019.
- Certificate in Passport to University Teaching from University of Hull, UK in March 2019.
- Certificate in Open Researcher from the University of Hull, UK in October 2018.
- Certificate in MATLAB Onramp from MathWorks in September 2018.
- Certificate in Programming Foundations with JavaScript, HTML and CSS (with Honors) from Duke University, USA through Coursera in March 2018.
- Certificate in Learning MATLAB from LinkedIn Learning in February 2018.
- Certificate in Programming for Everybody (Getting Started with Python) from University of Michigan, USA through Coursera in August 2017.
- Certificate in Verification of Electronic Design and Systems using Systems Verilog from Mentor Graphics (A Siemens Business) in July 2017.
- Ericsson Professional Certification (EXCEL) in IP and Telecom Basics during Career Connect Program held at Amity University, Noida, India in February 2017
- Certificate in Begin Robotics from the University of Reading, U.K. through Future Learn in February 2017.
- Certificate in C++:A General Purpose Language and Library Jump Start from Microsoft Virtual Academy in October 2016.
- Certificate in C# Fundamentals for Absolute Beginners from Microsoft Virtual Academy in June 2016.
- Certificate in Introduction to Project Management from University of Adelaide, Australia through edX in April 2016.
- Certificate in Introduction to Python for Data Science from Microsoft Corporation through edX in March 2016.
- Certificate in Lean Six Sigma Yellow Belt from Canopus Business Management Group- (International Association for Six Sigma Certification and Council For Six Sigma Certification Accredited) in December 2015.
- Certificate in Introduction to Cloud Computing from Advanced Learning Interactive Systems Online (ALISON) in 2015.
- Certificate in IT for Business Success from HP in 2015.
- Certificate in Customer Relationship Management from HP in December 2015.
- Certification in RTI from Department of Personnel and Training (DoPT), Ministry of Personnel, Public Grievances and Pensions, Govt. of India in December 2014.
- 10-Key Professional Certification from TypingWeb and Typing Institute of America for outstanding performance in achieving 94 % typing accuracy with a speed of 8325 Keystrokes Per Hour.

PROGRAM COMMITTEE MEMBERSHIPS/REVIEWER COMMITTEES SERVED

- Reviewer for the Annals of Biomedical Engineering Journal, Springer Nature- Official Journal of the Biomedical Engineering Society (Impact Factor: 3.607).
- Reviewer for the PeerJ Computer Science Journal (Impact Factor: 2.34).
- Program Committee Member and Reviewer for the "Tackling Climate Change with Machine Learning" workshop at the International Conference on Learning Representations (ICLR 2020). **CORE RANKING: A***
- Conference Paper Reviewer for the 31st European Conference on Information Systems (ECIS 2019) organized by Stockholm University, Sweden.

EXTRAMURAL ENGAGEMENTS

- Member, IET UK (MIET).
- Member, IEEE USA (MIEEE).
- Junior Member, Isaac Newton Institute for Mathematical Sciences, Cambridge, UK.
- Student Member, The British Computer Society, UK.
- Student Member, The Society for the Study of Artificial Intelligence and Simulation of Behaviour (AISB), UK.
- Chartered Engineer (CEng) and Associate Member (AMIE), Institution of Engineers (India).
- Life Member, Indian Science Congress Association, Govt. of India.
- Student Organizer of 5th International Conference on Signal Processing and Integrated Networks (SPIN 2018) held on 22-23 February, 2018.
- Member, Machine Intelligence Labs (MIR Labs), USA and Active Part of Various Research Activities in the area of Signal Processing, Machine Learning and Artificial Intelligence.
- Author of the Book "Thoughts of A Young Man"- A Collection of Short Poems, Random Thoughts and Inspirational Quotes published by Educreation Publishing, Delhi in September 2017.
- Served as Campus Ambassador of Entrepreneurship Cell- IIT Kanpur for the year 2016-17
- Executive Committee Member of the Multimedia Communications Technical Professional Network of IET UK from 2016-2019.

- Active Volunteer in various Social and Human Values Events organized at Amity University, Noida, India.
- Undertook the responsibility as the Centre Superintendent of Pranab Gandharva, Delhi, a social and cultural organization (Examination Centre) affiliated to Prayag Sangit Samiti, Allahabad. (Centre Code DL-222).
- Cleared Grade 2 with Merit in Electronic Keyboard from Trinity College, London (Examination Conducted by Delhi School of Music, Chanakyapuri, New Delhi, India).

SCHOLARSHIPS AND FUNDS AWARDED

- Registration fee waiver for presenting research at European Conference on Artificial Intelligence (ECAI)'s Doctoral Consortium, August 2020, Santiago, Spain.
- Awarded early career researcher partial grant towards registration for the International Joint Conference on Neural Networks (IJCNN), July 2020, Glasgow, UK by IEEE Computational Intelligence Society.
- Awarded travel grant of 1000 USD sponsored by Microsoft Research and Deep Mind for presenting research at the "Tackling Climate Change with Machine Learning" workshop at 33rd International Conference on Neural Information Processing Systems (NeurIPS 2019) in Vancouver, Canada.
- Funding from Aura Innovation Centre, UK to present research at WindEurope Offshore, Denmark in November 2018.
- Funding from University of Hull, UK to participate in Power Available Hackathon organized by ORE Catapult and Scottish Power Renewables in Glasgow, UK.
- Funding from University of Hull, UK to present research at Northern Lights Deep Learning Workshop (NLDL), Norway in January 2019.
- Fully funded PhD. Scholarship totaling 48,000 GBP in Computer Science at University of Hull, United Kingdom (2018-2021) for the project "Autonomous Prediction and Scheduling of Operations and Maintenance for Offshore Wind Farms", directly after undergrad in 2018.
- Studied B. Tech Electronics and Communication Engineering on Merit Scholarship (6000 GBP) for the entire duration of course at Amity University, Noida, India.

ACCOLADES

- Selected for the prestigious Oxford Machine Learning Summer School (OxML) organized by the University of Oxford with Canadian Institute For Advanced Research (CIFAR) in August 2020 (Acceptance Rate ~ 11%) .
- Received the Hull Employability Award for Postgraduate Researchers from the University of Hull, UK as an endorsement of excellent employability skills in May 2019.
- Won the competition PGR Postgraduate Research Experience Survey (PRES) challenge organized by the Graduate School, University of Hull, UK in May 2019.
- Honored with the Amity Young Researcher Award by Amity University, London and IEEE UK & Ireland Section during the International Conference on Automation, Computation and Technology Management (ICACTM) at Radisson Bloomsbury, London in April 2019.
- University Topper and Gold Medalist of B.Tech Electronics and Communication Engineering, Amity University, Noida, India with 9.68 CGPA.
- Awarded Shri Baljit Shastri Award for Best in Human and Traditional Values, the most coveted award of Amity University during Concluding Ceremony in May 2018.
- Awarded for Best Summer Training at Amity University during Concluding Ceremony in May 2018.
- India Book of Records 2018 Record Holder for "Most Offer Letters for Admission in Different Foreign Universities for Higher Education".
- Awarded First Prize in the Annual Projects and Posters Technical Competition (APPTeC) at Amity University, Noida, India for research work titled "An Automated System For Predicting Lung Disorders using Tracheal Breath Count and Statistical Features" in March 2018.
- Awarded for organization and outstanding contribution for the grand success of 5th International Conference on Signal Processing and Integrated Networks (SPIN 2018) held on 22-23 February, 2018.
- Received Letter of Appreciation from Prof. (Dr.) Hui-Huang Hsu, Dean, College of Engineering, Tamkang University, Taiwan for doing outstanding Research work at TKU during January-March 2018.
- Selected for TEEP@India Program by Ministry of Education, Taiwan for pursuing Research at Tamkang University, Taiwan from January-April 2018 with Scholarship.
- Interviewed for the MPhil. Machine Learning and Machine Intelligence program at University of Cambridge, UKin January 2018 by Prof. Bill Byrne, Head, Information Engineering Division(Among 18 Applicants Interviewed from across the globe and only Indian Student).
- Received Certificate of Commitment from the Central Vigilance Commission, Govt. of India, for commitment to uphold highest standards of honesty & integrity and to follow probity and rule of law in all walks of life.
- World Rank of 31 in Typing Assessment Conducted by Ratatype, with 77 WPM and Accuracy of 98%.

- Cracked the intensive selection process of Wipro Technologies Ltd., India and got campus placement as a Project Engineer (Among 50 selected from across more than 2000 candidates).
- Received Trophy of Appreciation from Mr. Aman Rajput (IES, Deputy Director, Ministry of Defence, Govt. of India and Secretary-YPS, IET Delhi Local Network) during the IET On Campus Regional Fest at Amity University, Noida for contribution to the events as Technical Head, Amity IET On Campus.
- Selected for the Mentor Graphics, Noida, India HEP Training Program (Among 30 students selected from across the country).
- Selected for the prestigious Indian Railways Summer Training among 22 students from across India.
- Selected for Internship at Reliance Jio, the trending VoLTE giant in India.
- Received Appreciation Award from Shri Ajay P. Jha (Mohan Veena Exponent and Foremost disciple of Pt. Vishwa Mohan Bhatt) for outstanding contribution in Social and Cultural activities organized by Pranab Gandharva, Delhi in 2016-17.
- Qualified for the Regional Round of IET India Scholarship Awards, 2016 (Organized by the IET U.K's India Branch).
- Received the Amul Vidya Bhushan Award in April 2015 for outstanding performance in All India Senior School Certificate Exam (Class 12), 2014.
- Bagged the Letter of Appreciation from the Ministry of Human Resource Development, Govt. of India in June 2014 for outstanding result in CBSE Class 12 Exams.
- Awarded Merit Certificate for outstanding performance and for being 0.1% CBSE All India Senior Secondary Examination Topper in June 2014 by the CBSE.
- Achieved the Scholar Badge and Merit Certificate in June 2014 from Bal Bharati Public School, Pitampura, Delhi, India for outstanding academic performance throughout school life.
- Best Vocalist (Boys) awarded in May 2007 for outstanding contribution in co-curricular activities throughout school life.

PERSONAL DOSSIER

Date of Birth: 06/06/1996
Linguistic Abilities: English- Full professional proficiency
                      Hindi- Professional working proficiency
                      French- Limited working proficiency
                      Bengali- Native or bilingual proficiency
Hobbies: Writing Poems, Reading Books, Playing Guitar and Keyboard
Favorite Scientific and Intellectual Content: The Extraordinary Genius of Albert Einstein (Documentary)
                      A Brief History of Time (Book by Stephen Hawking)