Dr. AMAN SHARMA

Assistant Professor (SG)

CONTACT DETAILS

#403, Phase-1,Mohali

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ORCID ID

https://orcid.org/0000-0001-5539-5386

GOOGLE SCHOLAR

https://scholar.google.co.in/citations?hl=en&user=DqTP780AAAAJ&view_op=list_works&sortby=pubdate

LANGUAGES

C, C++, HTML,SQL plus, Latex

Operating Systems

Linux, Windows

Data Analytics

Python, Matlab, R, Bioconductor, Scikit-learn

RESEARCH INTERESTS

- Data-Science
- Machine Learning
- Bioinformatics
- Modeling and Simulation

OBJECTIVE

A position with a technical and administrative role in an innovative institution where my unique combination of skills and experience can be of mutual benefit.

EDUCATION

Aug 2015-July 2019	**PhD** in *Computer Science & Engineering*	Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala
2013-2015	**Master of Engineering** in *Computer Science* (9 CGPA)	Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala
2009-2013	**Bachelor of Technology** in *Computer Science & Engineering* (85%)	Rayat and Bahra Institute of Engineering and Biotechnology, Mohali
2009	**Intermediate** / +2 (CBSE) (82%)	Gian Jyoti Public School, Phase-2, Mohali.
2007	**Matriculation** (CBSE) (85.6%)	Gian Jyoti Public School, Phase-2, Mohali.

RESEARCH

Aug 2015 - Present — **Machine Learning based Framework for Drug Prediction of Cancerous Genomic Profiles**

- Proposed an integrated framework for the identification of effective and synergistic anti-cancer drug combinations
- Proposed KSRMF, the kernelized similarity based regularized matrix factorization framework for predicting anti-cancer drug responses.
- Proposed BE-DTI', an ensemble framework for drug target interaction prediction using dimensionality reduction and active learning.
- Proposed C-HMOSHSSA, the cancer classification framework using multi-objective meta-heuristic and machine learning approaches.

2014-2015 — **Community detection and analysis of Twitter social data**

- Developed research based application using twitter API and R-tool to analyse and visualize the tweets.

EXPERIENCE

March 2021-Present	**Assistant Professor (SG)**	Jaypee University of Information and Technology
July 2019-Feb 2021	**Assistant Professor (Grade-II)**	Jaypee University of Information and Technology

Theory: Python, OOPS, Artificial Intelligence, Advanced Algorithms

Lab: Python, C, Web Tech Lab, Artificial Intelligence

Jan 2018 –June-2019	**Non Tenure Lecture**	Thapar Institute of Engineering and Technology

Lab: Data Structure & Algorithms, C, C++.
Tutorial: Probability and Statistics

July 2016 – Dec	**Research Teaching**	Thapar Institute of

ACHIEVEMENTS

- Cleared GATE 2013
- Cleared GATE 2015

STRENGTHS

- Hardworking
- A pragmatic and positive approach to situations
- Motivator
- Persuasive

PERSONAL PROFILE

- Fathers Name: Devinder Sharma
- Date of Birth: August 30, 1991
- Status: Single
- Languages Known: o Hindi, o English, o Punjabi

HOBBIES

- Reading Books
- Social Networking
- Listening Music
- Cooking

SPORTS

- Volleyball
- Badminton

2017	**Associate**	Engineering and Technology
	Lab: Data Structure & Algorithms, C, C++, Database and Management System, Computer Network	
July 2013 – Jun 2015	**Teaching Assistant**	Thapar Institute of Engineering and Technology
	Lab: Data Structure &Algorithms, C, C++	

PUBLICATIONS/Patents

Patents	**Australian Patent Application Number- 2020103509** **Invention Title-** An Artificial Intelligence Based System to Identity The Medical Condition Prior To Doctor Consultation
	German Patent Application Number- 202022102926.1 **Invention Title:** Internet of Things (IOT) Based Infrared Health Monitoring System For Newborn Babies
	Indian Patent Application Number- 202311029769 **Invention Title:** Method of Fabrication and Arrangement of Anti-Glare Glass for Avoiding Accidents on Road
	Indian Patent Application Number- 202311038968 **Invention Title:** Psychological Chatbot and Voice Bot System for the Treatment of Mental Illnesses
Journals	
2024	**Monika, Aman Sharma, Rakesh Kumar Bajaj, "On identifying suitable hydrogen power plant location under *T*-spherical fuzzy hypersoft matrix structures",** International Journal of Hydrogen Energy,2024 **(DOI:** https://doi.org/10.1016/j.ijhydene.2024.04.221)
2024	**Aman Sharma, Raghav Dalmia, Aarush Saxena, Rajni Mohana,** "A stacked deep learning approach for multiclass classification of plant diseases", Plant and Soil, 2024 **(DOI:** https://doi.org/10.1016/j.compag.2020.105456)
2024	**Aman Sharma, Divyam Goyal, Rajni Mohana,** "An ensemble learning-based framework for breast cancer prediction", Decision Analytics Journal, 2024 **(DOI:** https://doi.org/10.1016/j.dajour.2023.100372)
2024	**Ashima Kukkar, Rajni Mohana, Aman Sharma, Anand Nayyar, "A novel methodology using RNN+ LSTM+ ML for predicting student's academic performance",** Education and Information Technologies, 2024, (DOI: https://doi.org/10.1007/s10639-023-12394-0)
2024	**Amit Chauhan, Aman Sharma, Rajni Mohana,** "A Pre-Trained Model for Aspect-based Sentiment Analysis Task: using Online Social Networking", Procedia Computer Science, 2024, **(DOI:** https://doi.org/10.1016/j.procs.2024.03.193)
2023	**Aman Sharma, Rajni Mohana, Ashima Kukkar, Varun Chodha, Pranjal Bansal,** "An ensemble learning–based experimental framework for smart landslide detection, monitoring, prediction, and warning in IoT-cloud environment", Environmental Science and Pollution Research, 2023, **(DOI:** https://doi.org/10.1007/s11356-023-30683-6)
2023	**R Mohana, A Nayyar, P Kumar, A Sharma**, "Introduction to

REFEREES

Prof. Himanshu Aggarwal
Department of Computer Engineering, Punjabi University, Patiala – 147002, Punjab, India
Email- himanshu.pup@gmail.com

Dr. Rinkle Rani
Department of Computer Science and Engineering, Thapar Institute of Engineering and Technology, Patiala, Punjab, India
Email- raggarwal@thapar.edu

Prof. Vivek Sehgal
Head, Department of CS/IT, Jaypee University of Information Technology, Solan, H.P., India,
Email- vivek.sehgal@juitsolan.in

	the Special Issue on Sentiment Analysis and Affective computing in Multimedia Data on Social Network", Scalable Computing: Practice and Experience, 2023, (**DOI:** https://doi.org/10.12694/scpe.v24i4.2863)
2023	**A Sharma, D Goyal, R Mohana,** "An ensemble learning-based framework for breast cancer prediction" , Decision Analytics Journal, 2023 (**DOI:** https://doi.org/10.1016/j.dajour.2023.100372)
2023	**M, Bajaj R, Sharma A,** "On some new aggregation operators for T-spherical fuzzy hypersoft sets with application in renewable energy sources", International Journal of Information Technology. 2023,**(DOI:** 10.1007/s41870-023-01258-y**)**
2023	**Kukkar A, Mohana R, Sharma A, Nayyar A. "**Prediction of student academic performance based on their emotional wellbeing and interaction on various e-learning platforms**" Education and Information Technologies. 2023 Jan 13:1-30,(DOI:** https://doi.org/10.1007/s10639-022-11573-9)**[SCIE Indexed, Impact Factor-5.5]**
2023	**Kukkar A, Mohana R, Sharma A, Nayyar A, Shah MA. "***Improving Sentiment Analysis in Social Media by Handling Lengthened Words***", IEEE Access. 2023 Jan 20,(DOI:** 10.1109/ACCESS.2023.3238366)**[SCIE Indexed, Impact Factor – 3.9]**
2022	**R . Mohana, P. Sharma P, A. Sharma,** *"Ensemble Framework for Red Wine Quality Prediction",***Food Analytical Methods, Aug 2022, (DOI:** https://doi.org/10.1007/s12161-022-02367-3**) [SCIE Indexed, Impact Factor – 2.9]**
2022	**A. Tiwari, A. Chugh, A. Sharma, "***Ensemble framework for cardiovascular disease prediction*", ***Computers in Biology and Medicine***, May 2022.(DOI: https://doi.org/10.1016/j.compbiomed.2022.105624) **[SCIE Indexed, Impact Factor – 7.7]**
2021	**A. Sharma and R. Rani, "***A Systematic Review of Applications of Machine Learning in Cancer Prediction and Diagnosis*", Archives of Computational Methods in Engineering, Jan 2021.(DOI: https://doi.org/10.1007/s11831-021-09556-z) **[SCI Indexed, Impact Factor – 9.7]**
2020	**A. Sharma and R. Rani, "***An Ensembled Machine Learning framework for Drug Sensitivity Prediction*", IET Systems Biology, 2020 Feb; 14(1): 39–46. (DOI: 10.1049/iet-syb.2018.5094) **[SCI Indexed, Impact Factor – 2.3]**
2020	**A. Sharma and R. Rani, "***Drug Sensitivity Prediction Framework using Ensemble and Multi-task Learning",* International Journal of Machine Learning and Cybernetics, 2020 Jun;11(6):1231-40.(DOI: https://doi.org/10.1007/s13042-019-01034-0) **[SCI Indexed, Impact Factor – 5.6]**
2019	**A. Sharma and R. Rani, "***C-HMOSHSSA: Gene selection for cancer classification using multi-objective meta-heuristic and machine learning methods",* Computer Methods and Programs in Biomedicine, *178, 219-234. (DOI:* https://doi.org/10.1016/j.cmpb.2019.06.029) **[SCI Indexed, Impact Factor – 6.1]**
2018	**A. Sharma and R. Rani,** *"BE-DTI': Ensemble framework for drug target interaction prediction using dimensionality reduction and active learning"*, Computer Methods and Programs in Biomedicine, 165, 151-162, 2018. (DOI: 10.1016/j.cmpb.2018.08.011) **[SCI Indexed, Impact Factor –**

	6.1]
2018	**A. Sharma and R. Rani,** *"KSRMF: Kernelized similarity based regularized matrix factorization framework for predicting anti-cancer drug responses",* Journal of Intelligent & Fuzzy Systems, 35, 1779-1790, 2018. (DOI: 10.3233/JIFS-169713) **[SCIE Indexed, Impact Factor –2]**
2018	**A. Sharma and R. Rani,**"*An Integrated Framework for Identification of Effective and Synergistic Anti-Cancer Drug Combinations*", Journal of Bioinformatics and Computational Biology, 16 (4), 1850017, 2018. (DOI: 10.1142/S0219720018500178) **[SCI Indexed, Impact Factor - 1]**
2017	**A. Sharma and R. Rani,***"An optimized framework for cancer classification using deep learning and genetic algorithm",* Journal of Medical Imaging and Health Informatics, 7, 1851-1856, 2017. (DOI: 10.1166/jmihi.2017.2266 **) [SCIE Indexed, Impact Factor - 0.659]**
Conferences	
2023	Monika, Aman Sharma, Rakesh Kumar Bajaj "On Parameterized Picture Fuzzy Discriminant Information Measure in Medical Diagnosis Problem", **In Proceedings of 2023** International Conference on Emergent Converging Technologies and Biomedical Systems
2023	Amit Chauhan, Aman Sharma, Rajni Mohana, "A Transformer Model for end-to-end Image and Text Aspect-Based Sentiment Analysis", **In Proceedings of** 2023 Seventh International Conference on Image Information Processing (ICIIP)
2023	Mayank Aryaman, Yashica Paliwal, Aman Sharma, Rajni Mohana, "Voting Based Ensemble Framework For Crop Recommendation", " **In Proceedings of** 2023 Seventh International Conference on Image Information Processing (ICIIP) [**DOI**: 10.1109/ICIIP61524.2023.10537682]
2023	**Kriti Vij, Saloni Thakur, Aman Sharma, Rajni Mohana,** "Lung Disease Classification using X-Ray Imaging with Ensemble Learning" **In Proceedings of** 2023 11th International Conference on Intelligent Systems and Embedded Design (ISED), [**DOI:** 10.1109/ISED59382.2023.10444592]
2023	**P Taneja, A Sharma, M Singh,** "Comparison of Machine Learning Models for predicting Covid-19 patients' recovery in India" **In Proceedings of** 2022 Seventh International Conference on Parallel, Distributed and Grid Computing (PDGC). [**DOI:** 10.1109/PDGC56933.2022.10053358]
2022	Aman Gupta, Aman Sharma, Rajni Mohana, "Deep Learning-Based Ensemble Framework for Brain Tumor Classification", **In Proceedings of 2022** International Conference on Emergent Converging Technologies and Biomedical Systems
2022	**Joshi A, Rana V, Sharma A. "***Brain Tumor Classification using Machine Learning and Deep Learning Algorithms: A Comparison: Classifying brain MRI images on thebasis of location of tumor and comparing the various Machine Learning and Deep LEARNING models used to predict best performance***", In Proceedings of the 2022 Fourteenth International Conference on Contemporary Computing 2022 Aug 4 (pp. 15-21).** [**DOI:** https://doi.org/10.1145/3549206.3549210]
2021	**A. Sharma, K. Shah, S. Verma**, "*Face Recognition using Haar Cascade and Local Binary Pattern Histogram in OpenCV*", In Proceedings of 2021 Sixth International Conference on Image Information Processing (ICIIP-2021)

	[**DOI:** 10.1109/ICIIP53038.2021.9702579]
2020	**A. Sharma, A. Bansal and A. Bhardwaj,** *"Forecasting the Trend of Covid-19 Epidemic",* In Proceedings of 6th International Conference on Parallel and Distributed Computing. **(PDGC-2020**) [**DOI:** 10.1109/PDGC50313.2020.9315795]
2020	**A. Sharma, R. Rana,** *" Analysis and Visualization of Twitter Data using R",* In Proceedings of 6th International Conference on Parallel and Distributed Computing. **(PDGC-2020)** [**DOI:** 10.1109/PDGC50313.2020.9315740]
2018	**A. Sharma and R. Rani,***"C-HDESHO: Cancer Classification Framework using Single Objective Meta-heuristic and Machine learning Approaches"*, In Proceedings of 5th International Conference on Parallel and Distributed Computing. **(PDGC-2018),** pp. 406-411, IEEE, 2018.
2017	**A. Sharma and R. Rani,***"Classification of Cancerous Profiles Using Machine Learning"*, In Proceedings of Machine Learning and Data Science **(MLDS-2017)** International Conference, pp. 31-36, IEEE, 2017.
2015	**A. Sharma and R. Rani**, *"IoT solutions for 3-D visualization of Twitter data"*, In Proceedings of Advance Computing Conference **(IACC-2015)**, pp. 839-843, IEEE, 2015.
2014	A. Sharma and R. Rani "A 3-level model for implementing MOOC in India", In Proceedings of MOOC, Innovation and Technology in Education **(MITE-2014)**, pp. 132-137, IEEE, 2014.
Book Chapters	
2023	Aman Sharma, Archit Kaushal, Kartik Dogra, Rajni Mohana **,** "Deep Learning Perspectives for Prediction of Diabetic Foot Ulcers" In Metaverse Applications for Intelligent Healthcare, 2024
2023	**A Tiwari, A Chugh, A Sharma,"** Use of Artificial Intelligence with Human Computer Interaction in Psychology", In Innovations in Artificial Intelligence and Human-Computer Interaction in the Digital Era, 2023 (pp. 173-205)
2023	**Agarwal P, Rastogi D, Sharma A. "***Face Mask Detection Alert System for COVID Prevention Using Deep Learning***" In Applications of Machine Learning and Deep Learning on Biological Data 2023 Mar 13 (pp. 57-74). Auerbach Publications**
2021	**A. Sharma and R. Rani,** "Machine Learning Perspective in Cancer Research", Handbook of Research on Disease Prediction Through Data analytics and Machine Learning, **DOI: 10.4018/978-1-7998-2742-9.ch008**
2021	**A. Sharma and R. Rani,** "Machine Learning Applications in Anti-Cancer Drug Discovery", Springer Scopus book, Intelligent Healthcare. **DOI: https://doi.org/10.1007/978-3-030-67051-1_10**
2021	**A. Sharma and S. Chaturvedi, "**Mouse-Less Cursor Control for Quadriplegic and Autistic Patients Using Artificial Intelligence" In Artificial Intelligence for Accurate Analysis and Detection of Autism Spectrum Disorder, IGI Global. **DOI:**

	10.4018/978-1-7998-7460-7.ch008
Books	
	A. Sharma and R. Rani, "Community Detection and Analysis of Twitter Social Data", by LAP LAMBERT Academic Publishing, August 30, 2018. **ISBN-10:** 9783659805059**, ASIN :** 365980505X
Special Issue Handled	Rajni Mohana, Anand Nayyar, Pradeep Kumar, Aman Sharma, " Introduction to the Special Issue on Sentiment Analysis and Affective computing in Multimedia Data on Social Network" Scalable Computing: Practice and Experience, 2023

PROJECTS/TRAININGS/WORKSHOP/FDP/Others

Aug-Sep 2010	Training at NIIT, Mohali • Programming in C • Object Oriented Programming using C++
June-July 2011	Training at C-DAC, Mohali "Network Technologies"
Jan-June 2013	Training at CodeGuru, Mohali "Lua programming language". Made "Gurudwara finder" app using lua language.
Oct 2013	Attended two day "python workshop" organized by chakravyuh, Thapar University, Patiala, Punjab, India
Feb 2014	Attended two day "2014 ACM India Annual Event Women's Day" organized by IIT Delhi, India
April 2014	Participated in "Hackathon"organized by Linux User Group, Thapar University, Patiala, Punjab, India
Nov 2014	Completed certified online course " MOOC on MOOC", organized by IIT Kanpur, India
Jan 2015	Attended Winter Internship on " Internet of Things and Smart Devises", organized by AppMob, New Delhi, India
April 2016	Attended 4 day workshop on " Fuzzy logic and its applications in Big Data Analytics", organized by Thapar University, Patiala, Punjab, India
April 2018	Attended three day workshop on " Computational Drug Design using Molecular Docking and Virtual Screening", TIET, Patiala, Punjab, India
Nov 2018	Attended Faculty Induction & Orientation Program (FIOP-2018), Centre for Training & Development (CTD), TIET, Patiala, Punjab, India
Nov 2019	Attended Session Chair in ICIIP 2019 conference organized at JUIT, Solan, H.P, India
Jan 2020	Attended ERIP (Emerging areas of Research in Image Processing) - 2020 workshop organized at JUIT, Solan, H.P, India (6th - 12th Jan, 2020)
April 2020	Attended Faculty Development Program from 2020-04-28 to 2020-05-02 on R organized by JUIT, Solan, H.P, India

21 May 2020	Reviewer for Computers and Electronics in Agriculture (21 May 2020)
11 May 2020	Reviewer for Applied Soft Computing (11 May 2020)
June 2020	Attended FDP on Transforming Education with Industry 4.0, (15th June to 20th June 2020)
July 2020	Attended Two weeks online Faculty Development Programme on "Machine Learning for Computer Vision" jointly organized by Electronics and ICT Academies during June 29 - July 8, 2020
July 2020	Attended Webinar on Internet of Things (IoT) – Industrial Perspective (11 July, 2020) organized by BVICAM, New Delhi
July 2020	Attended Webinar on BlockChain – Technological Perspective (18 July, 2020) organized by BVICAM, New Delhi
July 2020	Attended Webinar on Sustainable IOT as part of the OPJU IEEE TECH WEB SERIES held on 4th July, 2020
July 2020	Attended Online 5-day Continuing Education Program entitled "Current Aspects and Research Opportunities in Civil Engineering" , organized by JUIT, Solan, H.P, India
August 2020	Organized Faculty Development Program on "Ambient Technologies: State-of-Art, Challenges, and Future Directions", organized by JUIT, Solan, H.P, India
September, 2020	Attended Machine Learning Course by Acadepro, India
September, 2020	Attended Two week FDP on Python Programming, IIITDM, Jabalpur
November, 2021 Sixth ICIIP	Reviewer of 2021 Sixth ICIIP
icSoftComp2021	Technical Program Committee Member icSoftComp2021
October, 2021	Reviewer of Archives of Computational Methods in Engineering
November, 2021 Sixth ICIIP	Conference Co-Chair: 2021 Sixth ICIIP
November, 2021 Sixth ICIIP	Session Chair: 2021 Sixth ICIIP
9-15th May, 2022	Participated in the AICTE Recognized Faculty Development Programme on NEP 2020 Implementation in Higher Education Institutes Conducted by Curriculum Development Centre Department from 09/05/2022 to 13/05/2022 (One Week) at Jaypee University of Information Technology, Waknaghat, Solan
6-10th June, 2022	Organized one week workshop on "Data Analytics and its research Perspectives", organized by JUIT, Solan, H.P, India
22nd - 26th March 2022	Workshop on Image Processing with Deep Learning organized between 22nd - 26th March 2022 in

	hybrid mode (Online and Offline) by the Department of ECE and CSE/IT, JUIT, Solan.
26-7-2022	Attended Regional Meet by MoE Innovation Cell Institution's Innovation Council, Chandigarh University, Mohali, Punjab
23-8-2022 to 5-9-2022	Coordinated the Induction Program for 1st Year Students, JUIT, Solan
8-9-2022	Served as an Evaluator in the Innovation, Research and Development (IRD) Competition organized by IPR Cell and TIED Cell, JUIT , Solan from Aug 16-Sep 05, 2022.
28-9-2022	Served as an Evaluator in the "Business Out of Plastics Event" organized by IPR Cell and TIED Cell, JUIT, Solan on 28 Sep, 2022.
December,2022	TPC member and reviewer of icSoftComp2022.
December, 2022	TPC member and Reviewer of PDGC-2022 Conference
15-03-2023	Reviewer of (InCACCT-2023) Conference.
25-03-2023	Organized an event called 'FEMPRENEUR' to celebrate International Women's Day. The event aimed to encourage and promote female innovation in the field of intellectual property. The last day to send the idea was 25th March, 2023.
15-03-2023 to 16-03-2023	Organized "Intellectual Property Rights (IPR) Awareness Programme under National Intellectual Property Awareness Mission (NIPAM 2.0)" held on March 15-16, 2023, at JUIT, Solan, in collaboration with HIMCOSTE
December 2022 to August 2023	Guest Editor of Special Issue Proposal on titled "Special Issue in Sentiment Analysis and Affective computing in Multimedia Data on Social Network" in Scalable Computing: Practice and Experience

EXTRA-CURRICULAR / MEMBERSHIP of PROFESSIONAL BODIES/ NATIONAL/ INTERNATIONAL COMMITTEES

- Technical Head, IEEE student chapter, TIET, Jan 2017-2019
- Organized Diwali Fest, TIET, October, 2017
- Selected as PhD student representative by PhD coordinator, Thapar University, June 2015
- Member of IEEE student chapter, Thapar University, Jan 2014-2015
- Secured 3rd position in group discussion held during chakravyuh, 2013
- Participated and won first prize in E-week event, RBIEBT, Feb 2011
- Lifetime member of Yogoda Satsanga Society of India.
- TPC member, reviewer and session chair of ICIIP, 2019
- TPC member, reviewer and session chair of PDGC, 2020
- Reviewer of Journal Computers and Electronics in Agriculture, 2020
- Reviewer of Journal Applied Soft Computing Journal, 2020

- Handling Special Session Chair at 2020 PDGC conference, JUIT, Solan
- Faculty member nominated from CS/IT department as a e-Yatra Faculty Members, Embedded system and robotics lab, JUIT, Wakhnaghat, Solan, Himachal Pradesh
- Departmental coordinator for teaching competitive coding for python using hacker rank
- Member of International Association of Engineers
- Editorial Board member of Computational Biology and Bioinformatics
- Member of LinQBio , The Global Bio-Medical Network
- Reviewer of COMPUTERS IN BIOLOGY AND MEDICINE, 2022
- Reviewer of Mathematical Problems in Engineering, 2022
- Co-Coordinator, IPR Cell of University, JUIT, Solan, 2022
- Member of DementiaBank speech based Alzheimer dataset

STARTUPS

S. No.	Startups
1	**Title -** JOIE A friend you wish you had **Team Members -** Archit Kaushal and Prakhar Jain **Mentor -** Dr. Aman Sharma **Brief about the project:** The AI-based chatbot project designed to provide answers to any DSA (Data Structures and Algorithms) question is an innovative solution to help students and developers in their learning and problem-solving journey.
2.	**Title:** POCKETRAVEL **Team members:** Agam Raj and Ishan Sharma **Mentor:** Dr. Aman Sharma **Brief about the project:** ● Creating a solution for the tourists who travel around. Showing them a designed path to travel on with a specific amount of time. ● Creating a domain of new unexplored places with a specific designed path on which they can travel on. ● A digital guide or a chatbot we call, that helps people find specific locations and find routes to reach their locations on. ● Showing a visual glimpse of the places (explored and unexplored) in terms of video and photos and giving a brief of the place to travel. **POCKETRAVEL** will increase the average spent time of tourists.

Industrial Projects/ Consultancy

S. No.	Projects/ Consultancy
1	**Title: (**VendCompost) Development of intelligent IoT-based composting machine for household and community. Idea is also to integrate vending machine with composter **PI:** Dr. Aman Sharma **CO-PI:** Dr. Ruchi Verma **Budget:** Approx. 20 lakhs
2.	**Title: (**Crop Hawk) Development of drone-based services for monitoring soil health and fertilizer/agro-chemical delivery system

	CSE **PI: Dr. Richa Gupta** **CO-PI:** Dr. Aman Sharma, Dr. Shubham Goel **Budget:** Approx. 39 lakhs