

FAISAL FIRDOUS

Computer Science professional with expertise in AI, Computer Vision, and DL, with strong experience in teaching, research, and course development. Published researcher with multiple SCI/Scopus-indexed papers and an active Udemy instructor with 30,000+ learners.



CONTACT

✉ faisalparray39@gmail.com
☎ +91 6005636085
📍 Kulgam Jammu and Kashmir

SKILLS

Programming

C ●●●●●
C++ ●●●●●
Python ●●●●●
Data Structure & Algorithms ●●●●●
Data Science ●●●●●
Computer Vision ●●●●●
Machine Learning ●●●●●
Image Processing ●●●●●
Deep Learning ●●●●●

Operating Systems

Windows ●●●●●
Linux ●●●●●
MacOS ●●●●●

Languages

English ●●●●●
Urdu ●●●●●
Kashmiri ●●●●●

Internships

Course Development In Python
📍 Constellation Training Placement Services

FDP

- ❖ Cryptography and Blockchain.
- ❖ Recent Trends in Artificial Intelligence and Cyber Security.
- ❖ AWS Cloud.
- ❖ Python Programming by IIT Kanpur.
- ❖ Cyber Security by IIT Kanpur.
- ❖ Advanced Excel with Data Visualization by IIT Kanpur.
- ❖ Blockchain Essentials and Development of DAAPS.
- ❖ Machine Learning by IIT Kanpur.
- ❖ Blockchain by IIT Kanpur.
- ❖ IOT and Drone by IIT Kanpur.

PROFILES

LinkedIn <https://shorturl.at/wX1Wc>
Scopus <https://shorturl.at/RfGtm>
Udemy Instructor <https://shorturl.at/eFYJD>
ORCID ID <https://orcid.org/0009-0003-0975-3324>
Google Scholar <https://shorturl.at/upkkC>

WORK HISTORY

📅 Feb-2025 Present
📍 JUIT, Solan HP Assistant Professor Grade-I

📅 Sep-2023 Jan-2025
📍 JUIT, Solan HP Assistant Professor (Contractual)

📅 Sep-2022 Aug-2023
📍 iNurture Edu. Solutions Pvt. Ltd. Bangalore Faculty IT

EDUCATION

📅 2023-2027
📍 JUIT Solan, Himachal Pradesh PhD Computer Science and Engineering(Pursuing)

📅 2020-2022
📍 Central University of Jammu, Jammu M Tech Computer Science and Engineering

📅 2016-2020
📍 BGSBU, Rajouri B.Tech Computer Science and Engineering




PROJECTS

- ❖ Enhancing Crop Yield with Artificial Intelligence-Based Leaf Disease Diagnosis
- ❖ Artificial Intelligence-Based Recognition of Medicinal Plants using Hybrid ViT+OSVM
- ❖ Drugs Prescription using Reviews In NLP
- ❖ Time Series Product Sales using Machine Learning
- ❖ Zomato Restaurant Success prediction
- ❖ Recommendation systems using data science, ML, and AI techniques.
- ❖ Hostel Management System for Jaypee University of Information and Technology, Solan
- ❖ Generative Artificial Intelligence-Based Healthcare Assistance

JOURNAL PUBLICATIONS




An Ensemble Deep Learning Framework for Skin Disease Classification with Explainable and Generative AI Support

 Faisal Firdous, Dhruv Yadav, Syed Zoofa Rufai, Saimul Bashir, Suman Saurabh Sarkar

 2026  Discover Artificial Intelligence , <https://link.springer.com/article/10.1007/s44163-026-01218-y> 


AI-Based Smart Identification of Medicinal Plants Using Vision Transformer and CatBoost for Biodiversity and Healthcare

 Faisal Firdous, Deepak Gupta, Hemant Sood

 2026  ECTI Transactions on Computer and Information Technology (ECTI-CIT) , <https://doi.org/10.37936/ecti-cit.2026201.263491> 

Integrating Vision Transformers and ResNet for Accurate and Explainable Medicinal Plant Identification [Under Review]

 Faisal Firdous, Deepak Gupta, Hemant Sood

 2026  Discover Artificial Intelligence , <https://> 




Exploring deep learning-based face anti-spoofing mechanisms: state-of-the-art, taxonomy, and futuristic trends [Under Review]

 Syed Zoofa Rufai, Saimul Bashir, Faisal Firdous

 2026  Artificial Intelligence Review , <https://> 

A Systematic Hyperparameter Optimization Framework for Deep Learning-Based Medicinal Plant Identification [Communicated]

 Faisal Firdous, Deepak Gupta, Hemant Sood

 2026  Turkish Journal of Agriculture and Forestry , <https://> 


CONFERENCE PUBLICATIONS




Farm monitoring and artificial human creation through holography: An innovative approach for agricultural optimization

 Faisal Firdous, Saimul Bashir, Amrita Singh, Dinesh Kumari, Manmeet Singh

 2025  INTERNATIONAL CONFERENCE RECENT ADVANCEMENTS IN COMMUNICATION, COMPUTING AND ARTIFICIAL INTELLIGENCE: RACCAI2024 , <https://doi.org/10.1063/5.0292529> 




Indication of approaching vehicles on blind curves using rotatory devices on roads

 Neeraj Sharma, Saimul Bashir, Faisal Firdous, Premlata Chopra


 2025  INTERNATIONAL CONFERENCE RECENT ADVANCEMENTS IN COMMUNICATION, COMPUTING AND ARTIFICIAL INTELLIGENCE: RACCAI2024 , <https://doi.org/10.1063/5.0293083> 




Advancements in Spoof Attack Detection for Iris Recognition Systems: A Review.

 Syed Zoofa Rufai, Faisal Firdous, Priya Pandey, Hilal Ahmad Shah, Saimul Bashir


 2025  World Congress on Smart Computing , https://link.springer.com/chapter/10.1007/978-981-97-9006-7_8 




Integration of Artificial Intelligence and Internet of Things Technology in Classroom Attendance Systems.

 Faisal Firdous, Saimul Bashir, Syed Zoofa Rufai, Dr. Sanjeev Kumar

 2024  2023 Seventh International Conference on Image Information Processing (ICIIP) , <https://doi.org/10.1109/ICIIP61524.2023.10537709> 




Chest Disease Detection using Machine Learning

 Saimul Bashir, Faisal Firdous, Syed Zoofa Rufai, Rohini Bawa,

 2024  ICIASC-2023 INTERNATIONAL CONFERENCE ON INTELLIGENT AND SMART COMPUTATION, DOI: <https://doi.org/10.1063/5.0198698> 




Attention-Deficit Hyperactivity Disorder Spectrum Using ADHD sfMRI

 Faisal Firdous, Deepti Malhotra, Mehak Mengi ,

 2023  Proceedings of International Conference on Recent Innovations in Computing: ICRIC 2022, Volume 1 , DOI: https://doi.org/10.1007/978-981-19-9876-8_28 




OpenAI ChatGPT as a Logical Interpreter of code

 Faisal Firdous, Saimul Bashir, Syed Zoofa Rufai, Dr. Sanjeev Kumar ,

 2023  2nd International Conference on Edge Computing and Applications ICECAA 2023, DOI: <https://doi.org/10.1109/ICECAA58104.2023.10212275> 




A Comprehensive Review on Apple Leaf Disease Detection

 Saimul Bashir, Faisal Firdous, Syed Zoofa Rufai,

 2023  International Conference for Convergence of Technology (I2CT), 2023, DOI: <https://doi.org/10.1109/I2CT57861.2023.10126487> 




Brain Stroke Disease Detection:A Review

 Saimul Bashir; Faisal Firdous; Syed Zoofa Rufai

 2023  Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), DOI:<https://ieeexplore.ieee.org/abstract/document/10250666> 




An Intelligent Framework for Plant Disease Detection and Real-Time Recommendations Using Deep Learning [Presented]

 Srishti Gupta, Anshul Sharma, Sanya Sharma, Faisal Firdous


 2025  INTERNATIONAL CONFERENCE ON INFORMATION SCIENCE TECHNOLOGY AND MANAGEMENT (CISTM 2025), <https://auts.ac.in/> 

Towards Trustworthy Deep Learning Models: Performance and Explainability in Medicinal Plant Classification [Presented]

 Faisal Firdous, Deepak Gupta, Hemant Sood


 2025  INTERNATIONAL CONFERENCE ON INFORMATION SCIENCE TECHNOLOGY AND MANAGEMENT (CISTM 2025), <https://auts.ac.in/> 

INNOVATIVE PATHWAYS IN QUALITATIVE RESEARCH: REIMAGINING PERSPECTIVES, PRACTICES, AND POSSIBILITIES IN EDUCATION [Presented]

 Bintul Islam, Faisal Firdous

 2025  2025 International Online Conference on 'Exploring Experience through Qualitative Research', <https://aaic.in/> 




Deepfake Technology: Analysis, Implications, and Safeguarding Strategies [Presented]

 Faisal Firdous, Syed Zoofa Rufai, Saimul Bashir

 2025  2025 International Conference on Applied Artificial Intelligence and Innovation, <https://aaic.in/> 




Multi-Model Deep Learning Approach for Robust Recognition of Medicinal Plants [Presented]

 Faisal Firdous, Ramanpreet kaur, Saimul Bashir, Chandan Kumar

 2025  2025 National Conference on Agricultural Automation and Smart Systems (AASS-2025), <https://aaic.in/> 


A thorough study on data-driven face spoof detectors: state-of-the art, open research issues and future outlooks [Presented]

 Neeraj Sharma, Saimul Bashir; Faisal Firdous; Premalata Chopra

 2025  2024 International Conference on Applications of AI in Earth Science (AAIES-2024), <https://www.cg.ac.in/conference/international-conference/> 

The Intersection of Nature and Neural Networks: A Review on Medicinal Plant Classification using Cutting-Edge AI Techniques [Presented]




 Faisal Firdous, Deepak Gupta, Hemant Sood

 2025  National Conference on Agricultural Automation and Smart Systems (AASS-2025), <https://www.cg.ac.in/conference/international-conference/> 

BOOK CHAPTERS




Smart Contracts for IoT Security: A Practical and Ethical Approach

 Faisal Firdous, Saimul Bashir, Syed Zoofa Rufai

 2025  Blockchain Beyond Borders: Ethical Challenges and Regulatory Solutions by Cambridge Scholars Publishing, <https://www.cambridgescholars.com/product/978-1-0364-4973-5/> 




Optimizing Agriculture: AI for Yield, Efficiency, and Sustainability

 Syed Zoofa Rufai, Faisal Firdous, Sheetal, Soman

 2025  Harvesting the Future: AI and Machine Learning in Agriculture by Cambridge Scholars Publishing, <https://www.cambridgescholars.com/> 




AI-Powered Drones for Precision Crop Monitoring and Health Assessment

 Srishti Gupta, Anshul Sharma, Sanya Sharma, Aryan Yashraj Chauhan, Faisal Firdous

 2025  Harvesting the Future: AI and Machine Learning in Agriculture by Cambridge Scholars Publishing, <https://www.cambridgescholars.com/> 




Significance of Machine Learning in Apple Disease Detection and Implications.

 Saimul Bashir, Faisal Firdous, Syed Nisar Bukhari, Gursimran Jeet Kour

 2024  Data-Driven Farming Book by Taylor and Francis, <https://doi.org/10.1201/9781003485179> 

Exploring the Potential of Machine Learning and Deep Learning for COVID-19 Detection.

 Saimul Bashir, Faisal Firdous, Syed Zoofa Rufai

 2024  Deep Learning Techniques for Automation and Industrial Applications Book by WILEY, <https://doi.org/10.1002/9781394234271.ch14> 

CERTIFICATES

- ❖ Artificial Intelligence in Agriculture at ICAR - National Academy of Agricultural Research Management, 1-31 MAR 2026
- ❖ C Programming In Depth.
- ❖ Master In C++
- ❖ Python
- ❖ Machine Learning
- ❖ Python Bootcamp For Data Science: NumPy, Pandas & Seaborn
- ❖ Practical Computer Vision With OpenCV And Python
- ❖ Neural Networks In Python: Deep Learning For Beginners
- ❖ SQL + Tableau + Python
- ❖ Machine Learning—Regression and Classification
- ❖ Academic Writing | SWAYAM (HNB Garhwal University), Aug 2022
- ❖ E-Assessment | SWAYAM (Avinashilingam Institute for Home Science and Higher Education), Aug 2021

☀ PATENTS

- ❖ Solar-Powered Smart Rodent Repeller [Design No. 448076-001] [DOI: 05-May-2025]

☀ UNDERGRADUATE PROJECTS SUPERVISED

- ❖ DeepGuard: A Multi-Modal Solution for Image & Voice Authentication [2026]
- ❖ CardioVision: A Web-Based AI System for Coronary Artery Stenosis Detection and Segmentation from Angiography Images Using YOLO [2026]
- ❖ An AI-Based Adaptive Learning Model to Enhance Student Engagement and Learning Outcomes [2026]
- ❖ FloraHeal: An AI-Powered Herbal Healthcare Platform [2025-26]
- ❖ AI-Powered Medical Imaging Enhancement & Explainability System [2025-26]
- ❖ Real-Time Plant Health Monitoring with Actionable Recommendations [2024-25]
- ❖ Satellite Image Classification using Deep Learning [2025]
- ❖ Automating Deforestation Analysis Using Deep Learning Techniques [2025]
- ❖ Generative Artificial Intelligence-Based Healthcare Assistance [2024]
- ❖ Enhancing Crop Yield with Artificial Intelligence-Based Leaf Disease Diagnosis [2024]

☀ FACULTY DEVELOPMENT PROGRAMS

- ❖ AI and Machine Learning: Transforming Multidisciplinary Research and Innovation at DVSIET, Meerut [16-20 MAR 2026]
- ❖ Problem-Driven AI: Real-World Applications and Solution Frameworks at NIT Rourkela [7-16 FEB 2026]
- ❖ Impact and Influence of AI in the Age of Generative and Agentic AI at Sister Nivedita University, Kolkata. [FEB 2026]
- ❖ NEXT-GENERATION AGRITECH: AI, PREDICTIVE ANALYTICS, AND SUSTAINABLE FARMING at CHRIST University, Bangalore. [JAN 2026]
- ❖ Advanced Deep Dive into the Hidden Mathematical Science of Mechanistic Interpretability at MADAN MOHAN MALAVIYA UNIVERSITY OF TECHNOLOGY [JAN 2026]
- ❖ Deepfake: Protecting Security & Privacy in Democratic India at UNIVERSITY INSTITUTE OF TECHNOLOGY, RGPV, BHOPAL. [NOV 2025]
- ❖ NextGen Quantum Educators Program organized by Amity University Jharkhand. [Aug 2025]
- ❖ AI & Cloud Security: Compliance strategies for a Digital Future Sponsored by the IEEE Bombay Section and organized by Yeshwantrao Chavan College of Engineering, Nagpur, Maharashtra. [APR 2025]
- ❖ Preserving Local Dialects Using Multi-layer Perceptron for Sustainable Development of Communities by Poornima Institute of Engineering & Technology, Jaipur. [JAN 2025]
- ❖ AI-Driven Biomedical Technologies in Healthcare 5.0 and its Applications at GOPAL NARAYAN SINGH UNIVERSITY. [DEC 2024]
- ❖ Artificial Intelligence/Artificial Wisdom—A Drive for Improving Behavioral and Mental Health Care at Central University of Jammu. [SEP 2021]

☀ REVIEWER/MEMBERSHIP

- ❖ Journal of Interactive Educational Technology
- ❖ International Research Journal of Multidisciplinary Technovation (IRJMT)
- ❖ Reviewer of International Journal of Electrical and Computer Engineering (IJECE)
- ❖ Reviewer of SN Computer Science Journal
- ❖ Reviewer of Diyala Agricultural Sciences Journal
- ❖ Reviewer of International Journal of Research and Analytical Reviews (IJRAR)
- ❖ Member of the Computer Science Teachers Association (CSTA).
- ❖ Membership of the International Association of Engineers.

☀ TEACHING

- ❖ C Programming
- ❖ Object-oriented programming using C++
- ❖ Data Structures and Algorithms using C and C++
- ❖ Design and Analysis of Algorithm
- ❖ Theory of Computation
- ❖ Compiler Design
- ❖ Database and Management Systems
- ❖ Operating Systems

☀ EXTRACURRICULAR ACTIVITIES

- ❖ Joint Faculty Coordinator of Rotract Club of Waknaghat.
- ❖ Placement Member at Jaypee University of Information Technology, Waknaghat, Solan, H.P.
- ❖ Final Year Project Member at Jaypee University of Information Technology, Waknaghat, Solan, H.P.
- ❖ Warden at Jaypee University of Information Technology, Waknaghat, Solan, H.P.
- ❖ Member of Anti-Ragging Squad at Jaypee University of Information Technology, Waknaghat, Solan, H.P.
- ❖ HackerRank Coordinator at iNurture Education Solutions Pvt. Ltd.

☀ ONLINE COURSES CREATED (INSTRUCTOR)

- ❖ Data Structures and Algorithms using C Programming | Udemy – Enrolled by 3,000+ students with 200+ minutes of watch time
- ❖ C Programming | Udemy – 31,600+ students enrolled | Rated 4.7/5 | 348,000+ minutes watch time