Divyansh Thakur

Department - Computer Science and Engineering

Research Area – Deep Learning, IoT, and Sensor Fusion
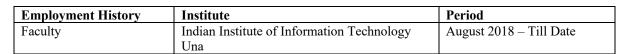**PhD Pursuing (**Indian Institute of Information Technology Una**)**
MTech (2018 - JUIT**)**
BTech (2016- State Government College)
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Employment History	Institute	Period
Faculty	Indian Institute of Information Technology Una	August 2018 – Till Date

National Level Exam	Qualified Year
All India Engineering Entrance Exam	2012
GATE	2016
UGC NET	2018

Education				
Degree/School	Institute	Branch	Division	Year of Completion
PhD (Pursuing)	IIIT Una	Computer Science and Engineering	Ongoing	Ongoing
M.Tech.	JUIT Wakhnaghat	Computer Science and Engineering	First	2018
B.Tech.	ABVGIET Shimla	Computer Science and Engineering	First	2016
Intermediate	DAV Hamirpur	Non-Medical	First	2011
High School	DAV Hamirpur	Science	First	2009

Research Interests
Deep Learning   **Machine Learning**   **Internet of Things**   **Wireless Sensor Networks**

Publications: 3 SCI, 4 Scopus, 1 Book Chapter

Google Scholar (Divyansh Thakur – Google Scholar) i10 Index - 3			
S.No.	Title	Journal	Indexing
1.	DeepThinkIoT: The Strength of Deep Learning in IoT	Artificial Intelligence Review, Springer	SCI **(12 IF)**
2.	Fine Tuned Single Shot Detector for Finding Disease Patches in Leaves	SN Computer Science, Springer	SCOPUS
3.	MDLCSL: A Multilayer Deep Learning Model for Classification of Sweet Lime Leaves	IEEE Xplore	Conference Paper
4.	Applicability of wireless sensor networks in precision agriculture: A review	Wireless Personal Communications, Springer	SCI (2.2IF)

S.No.	Title	Journal	Indexing
5.	Smart Irrigation and Intrusions Detection in Agricultural Fields Using IoT	Procedia Computer Science, Elsevier	SCOPUS
6.	Real time monitoring of Valeriana Jatamansi plant for growth analysis	Procedia Computer Science, Elsevier	SCOPUS
7.	Analysis of Symmetric and Asymmetric Key Algorithms	Systems and Sustainability, Springer, Singapore.	SCOPUS
8.	The Significance of Deep Learning and Internet of Things for Activity Recognition.	Studies in Big Data to the Studies in Computational Intelligence	SCOPUS

Submitted Articles

S.No.	Title	Journal	Indexing
1.	Artificial Intelligence Assisted Plant Counting through Unmanned Aerial Vehicles in India's Mountainous Regions	Agricultural Systems, Elseiver	SCI (Indexing 6.8)
2.	Neural Networks and Deep Learning Enabled Mobile Application for Phytopathology Categorization and Identification of Potato Leaves	Applied Intelligence, Springer	SCI (Indexing 5.019)
3.	Enhancing Real-Time Plant Counting with Lightweight EfficientDet D5 on NVIDIA Jetson, Empowered by Self-Configured Unmanned Aerial Vehicle	IEEE Transactions on Artificial Intelligence	SCI

Projects
• Project Co-ordinator for Design and Development of Technical Solutions to applications of HP Police, Hamirpur (ONGOING)
• Project Co-ordinator for Development of COVID-19 Information App. for HP Police, Hamirpur.
• Face Recoagnition using Deep Learning Algorithms
• Glacier Lakes detection in Himalayan regions using DL
• Plant Disease Detection using DL
• Plant Disease Classification using DL
• Plant Count using UAV and DL

Workshop/FDP Conducted	
Workshop/FDP	**Role**
One Week FDP on Managing Big Data Jointly Organised by Himachal Pradesh Technical University and Indian Institute of Information Technology Una, 23 – 28, Dec. 2019.	**Coordinator**
CISCO Networking Workshop by Network Bulls, 02-03 Nov. 2019	**Coordinator**
One Week FDP on Big Data Computing Jointly Organised by Himachal Pradesh Technical University and Indian Institute of Information Technology Una, 23 – 28, Nov. 2020.	**Coordinator**
First Annual Sports Meet, 24 – 25 Feb. 2020	**Coordinator**

Guest Lecture Delivered		
Topic	**Institute**	**Date**

Introduction of Latex and Its Working	Himachal Pradesh Technical University, Hamirpur (Main Campus)	**20th Sep. 2018**
Working of C++ and MATLAB	Himachal Pradesh Technical University, Hamirpur (Main Campus)	**21-23 Dec. 2020**
Construction of Pseudo Random Objects	Chandigarh University	**15th November 2022**
AI Assisted Drone and IoT Technology for Precision Farming in Himachal Pradesh	Rajiv Gandhi Government Engineering College, Nagrota Bagwan, Kangra	**1-2 May, 2023**
Glacial Lakes Detection using Deep Learning and Satellite Imagery	IIIT Una	**05-09 June 2023**
The Strength of Deep Learning in Internet of Things.	Mahatma Gandhi Govt. Engineering College Jeori	**19 June 2023**

Workshop/Conference Organised	
Workshop/FDP	**Role**
One Week FDP on Managing Big Data Jointly Organised by Himachal Pradesh Technical University and Indian Institute of Information Technology Una, 23 – 28, Dec. 2019.	**Coordinator**
CISCO Networking Workshop by Network Bulls, 02-03 Nov. 2019	**Coordinator**
One Week FDP on Big Data Computing Jointly Organised by Himachal Pradesh Technical University and Indian Institute of Information Technology Una, 23 – 28, Nov. 2020.	**Coordinator**
First Annual Sports Meet, 24 – 25 Feb. 2020	**Coordinator**
Recent Trends in Machine Learning and its Applications, 05-09 June 2023	**Coordinator**

Workshop/Conference Participated
- Online Training Programme on "E-CONTENT DEVELOPMENT FOR 21ST CENTURY LEARNERS" conducted by National Institute of Technical Teachers Training & Research, Chennai   - Certified Virtual Classroom Teacher by Skillnet in association with Madras/Chennai chapters of Computer Society of India, ACM, and IEEE Computer Society, 23RD May 2020   - R&D Showcase at IIIT Hyderabad   - International Workshop on Big Data Analytics organised by SSN Chennai sponsored by BIRAC May 28 – 30, 2020   - Workshop on Health Care Services Software, Shimla   - National Conference on Skilling in Higher Education on 18th Jan 2019 at Panjab University, Chandigarh   - A foundation Program on Data Science using Statistica, JUIT 21 April 2017   - Workshop on Big Data Analytics Using Hadoop, NIELIT Shimla   - International Conference on Computational Intelligence and Data Science 2018, 7th – 8th April 2018.   - Fourth International Conference on Image Information Processing (ICIIP 2017)   2016 Fourth International Conference on Parallel, Distributed and Grid Computing (PDGC)

Coding Skills
Python
C, C++
PhP, HTML
Android

Online Courses Completed
"Introduction to Internet of Things" organized by "Stanford School of Engineering" Jan

2021-Feb 2021
"Deep Learning in Computer Vision" organized by "HSE University, Russia" Feb 2021 – March 2021
"Deep Learning Specialization from Coursera"
"Computer Vision Basic from Coursera

Website Development
Develop website for International Virtual Workshop on Artificial Intelligence in the IoT Security Services (AI-IOTS 2020)

I do hereby declare that the above information is true to the best of my Knowledge

Divyansh Thakur