


# CENTRAL UNIVERSITY OF JAMMU

## **FACULTY PROFILE**

<b>Name</b>	<b>Harnain Kour</b>	
<b>Title &amp; Designation</b>	Assistant Professor Department of Computer Science & Engineering, Central University of Jammu. Rahya-Suchani (Bagla), District Samba, Pincode - 181 143, Jammu & Kashmir (J&K), India	
<b>Residence Address</b>	House No. 1362 F, Sector-7, Nanak Nagar, Ext. Trikuta Nagar, Jammu-180004	
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<b>Educational Qualifications:</b>		
<b>Degree</b>	<b>Institution</b>	<b>Year</b>
<b>PhD</b>	Shri Mata Vaishno Devi University, Katra, J&K	2023
<b>M. Tech.</b>	Chandigarh Engineering College, Punjab	2017
<b>B. Tech.</b>	Akal College of Engineering and Technology, Baru Sahib, Himachal	2014
<b>Career Profile:</b>		
<b>Designation</b>	<b>University</b>	<b>Period</b>
<b>Assistant Professor</b> (Dept. of Computer Science & Engineering)	Central University of Jammu, J&K India	July 2023 onwards
<b>Assistant Professor</b> (Dept. of Computer Science & Engineering)	MIET, J&K, India	Aug 2017 – Aug 2018
<b>Research Associate</b> (DRDO Project)	Central University of Jammu	Oct 2022 – July 2023
<b>Areas of Interest / Specialization:</b>		
Artificial Intelligence, Natural Language Processing, Machine Learning		
<b>Subjects Taught:</b>		
✚ Data Science ✚ C-language ✚ Networking ✚ Artificial Intelligence ✚ Machine Learning ✚ Natural Language Processing ✚ Operating Systems		
<b>Research Guidance:</b>		
<ul style="list-style-type: none"><li>• Mentored M.Tech students in Dissertation</li><li>• Guided MCA students in their mini and major project work.</li></ul>		

## Publications Profile:

### a) Research Papers in Journals

1. Kour, H., & Gupta, M. K. (2022). An hybrid deep learning approach for depression prediction from user tweets using feature-rich CNN and bi-directional LSTM. *Multimedia Tools and Applications*, 1-37. [SCI, IF=2.677].
2. Kour H, Gupta MK. (2022) Predicting the language of depression from multivariate twitter data using a feature-rich hybrid deep learning model. *Concurrency Computat Pract Exper*. 2022;e7224. doi: 10.1002/cpe.7224. [SCI, IF=1.831].
3. Kour, H., & Gupta, M. K. (2022) AI Assisted Attention Mechanism for Hybrid Neural Model to Assess Online Attitudes About COVID-19. *Neural processing letters*, 1-40. [SCI, IF=2.77].
4. Kour H, Gupta MK. Hybrid Evolutionary Intelligent Network for Sentiment Analysis using Twitter Data during COVID-19 Pandemic, *Expert Systems*. [SCI, IF=3.665].
5. Kaur, I., Kour, H., & Verma, A. (2017). Ticket based Secure Authentication Scheme using NTRU Cryptosystem in Wireless Sensor Network. *International Journal of Computer Science and Information Security*, 15(2), 55. [ESCI, IF=1.05].
6. Kaur, I., Kour, H., & Verma, A. (2016) Analysis of Security, Privacy and Efficiency Aspects of Handover Authentication Protocol for Wireless Sensor Networks. *International Journal of Research in Electronics and Computer Engineering*, 4(4), 30-35.

### b) Conference Proceedings

1. Kour, H., & Gupta, M. K. (2022). Recent Techniques for Sentiment Analysis on Medical Data to Predict Depression: A Review. *Recent Innovations in Computing*, 379-389, Springer, Singapore.
2. Kour, H., & Gupta, M. K. (2021). Depression and Suicide Prediction using Natural Language Processing and Machine Learning. *International Conference on Cyber Security, Privacy and Networking (ICSPN)*, Springer Verlag, Singapore.
3. Kour, H., & Gupta, M. K. (2022, December). Hybrid LSTM-TCN Model for Predicting Depression using Twitter Data. In *2022 17th International Conference on Control, Automation, Robotics and Vision (ICARCV)* (pp. 167-172). IEEE.

## Workshops/Training attended:

1. Participated in the International Conference on "Renewable Energy" held at ACET, Himachal Pradesh on May 5th - 6th, 2012.
2. Participated in Cultural cum technical fest "VIHAAN" held at ACET, Himachal Pradesh on 10th - 11th, Dec 2011.
3. Attended workshop based on Networking Technolgy "RING THE PACKETS" conducted by C.S Technologies held on Oct 9th - 10th, 2011.
4. Attended workshop based on "ANDROID" conducted by i3indya Technologies held on Dec 8th-9th,2012. -Participated in National Level Technical Fest "Techelone'12" held at Chitkara University on 19th - 20th, Oct 2012.
5. Participated in Workshop on "Learning Cyber Security with Honeynets" held on 18-19 Feb , 2015 organized by CDAC.
6. Participated in a Workshop on Mathematical and Statistical methods for Machine Learning organized by NIT Hamirpur | Nov 2020.
7. Attended workshop on Fundamentals of Deep Learning for computer vision organized by NVIDIA | Oct 2019
8. Participated in workshop on Foundation of Fuzzy Set and Fuzzy Logic Applications organized by TEQIP-III at SMVDU, Jammu 2019.
9. Participated in workshop on Data Analysis Techniques with Python organized by IIT Roorkee | Sept 2018

**Workshops/Training attended:**

1. Attended one week Online Faculty Development Programme on “**Artificial Intelligence**” from 15<sup>th</sup> – 19<sup>th</sup> February 2022 under Microsoft’s TechSaksham Program organized by University of Jammu
2. Participated in the 6 days Faculty Development Programme on “**MOOCS and e-learning**” from 1<sup>st</sup> – 6<sup>th</sup> December 2022 organized by Department of Computer Science & IT, University of Jammu.
3. Attended 5 days AICTE training and learning academy(ATAL) Faculty Development Programme(FDP) on the topic “**Internet of Things**” , during 1<sup>st</sup> to 5<sup>th</sup> July 2021 organized by Department of Computer Science & IT, University of Jammu.
4. Participated in 4 weeks workshop on “**Artificial Intelligence and Data Analysis**” organized by IIT Jammu from 30<sup>th</sup> September – 25<sup>th</sup> October 2019
5. Participated in one day short term training Programme NVIDIA certified on “**Fundamentals of Deep Learning for Computer Vision**” during April 2019 organized by the Department of Computer Science & Engineering, Model Institute of Engineering & Technology, Jammu.

**Awards and Distinctions:**

- Distinction in B.Tech.
- Distinction in M.Tech.

**Memberships:**

- IEEE Young Professionals
- IEEE Consumer Technology Society Membership

31<sup>st</sup> July 2023

Harnain Kour