



Sonam

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GOOGLE SCHOLAR: [Google Scholar](#)

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Profile

Currently working as an Assistant Professor in the Department of Computer Science and engineering at Integral University, Lucknow.

Worked as an Assistant Professor in the Department of Computer Science and Engineering at PSIT Kanpur (from 10/01/2024 to 02/08/2024).

QUALIFICATION	-M. Tech: Integral University, Lucknow 2024. -B. tech: Babu Banarasi Das Institute of Technology & Management (AKTU), Lucknow 2022 - Additional Certifications in Microsoft Azure Fundamental from Microsoft
TEACHING/ RESEARCH/ ESTABLISHMENT EXPERIENCE	Total Experience: 11 months
PUBLICATIONS	- Conference Papers: 3 - Book Chapters: 1 -Patents: 00 Research Projects: 00
RESEARCH GUIDED	a) Ph.D.: Awarded: 00; Submitted :00, Ongoing – 00. b) M. Tech : Awarded – 00
WORKSHOP/ QIP/ FDP/ SHORT COURSES	Attended: 2

	Conducted: 00 Keynote and Resource Person: 00
ACHIEVEMENTS/ RECOGNITIONS AT THE NATIONAL/ INTERNATIONAL LEVEL	1. Best Paper award: 01
REVIEWER	-
PROFESSIONAL MEMBERSHIPS	- IAENG

Research Interests

Machine learning, Artificial Intelligence, Healthcare.

Summary of Research Accomplishment

1. Detection of Antenatal Health Risk Level Using Machine learning: Conducted research focused on improving early detection of high-risk pregnancies by identifying critical health indicators such as blood pressure, heart rate, and blood glucose levels.

2. Identifying Perinatal Health Risk Level using Machine Learning: Focused on leveraging advancements in medical science to enhance maternal and neonatal health during the perinatal period. Developed a machine learning-based model to predict health risks such as preeclampsia, eclampsia, and postpartum hemorrhage by analyzing key health indicators like blood pressure, blood sugar, and hemoglobin levels

3. A Comparative Study on Conversion of Hand Gestures to Text and Speech for Blind, Deaf, and Mute People: Conducted research focused on enhancing communication for individuals with visual, auditory, and speech impairments. Analyzed existing technologies that convert hand movements into sound or text, exploring hardware and software solutions for their accuracy and effectiveness.

Courses Taught

- Cloud Computing
- Design of Algorithm and Data structure
- Introduction to Computers