Sadbhawna

+91 7807094887, 2018rcs0013@iitjammu.ac.in
Computer Science and Engineering Department
Indian Institute of Technology Jammu
Jammu & Kashmir, India 181221

OBJECTIVE

Result focused and creative thinker, seeking to work on exciting projects and real world research problems in the field of computer vision and deep learning, develop analytical thinking, team work, leadership skills.

RESEARCH INTERESTS

Visual Perception, Multimedia Perceptual Quality, Deep Learning, Machine Learning, Computer Vision, Image Processing, Quality Enhancement, Quality Assessment, Artificial Intelligence, 3D-Synthesis.

EDUCATION

Indian Institute of Technology Jammu July 2018-Now
PhD in Computer Science
Advised by Dr. Vinit Jakhetiya
(Coursework CGPA: 8.4/10)

SLIET, Punjab (CFTI estd. by MHRD, India) July 2016-June 2018
M.Tech. in Computer Science
(CGPA: 8.4/10)

ABVGIET, Shimla, Himachal Pradesh July 2012-June 2016
State Govt. College Affiliated to HPTU
B.Tech. in Computer Science
(Percentage: 74.5 %)

TECHNICAL COURSEWORK

(i) **Digital Image Analysis**
At Indian Institute of Technology, Delhi
taught by Prof. Prem Kumar Kalra

(ii) **Computer Vision**
At Indian Institute of Technology, Delhi
taught by Prof. Brejesh Lall

(iii) **Principles of Optimation Theory**
At Indian Institute of Technology, Bombay
taught by Prof. Virender Singh

(iv) **Pattern Recognition**
At Indian Institute of Technology, Jammu
taught by Dr. Badri Narayan Subudhi

(v) **Deep Learning Specialization by Coursera**
Certified Courses
taught by Prof. Andrew Ng

OTHER QUALIFICATIONS

UGC-NET, 2018 and GATE 2016, 2018 Qualified. Stipend in M.Tech. for 2 years by AICTE.

ACHIEVEMENTS

(i) **Runner Up Team in IEEE ICASSP 2021 Signal Processing Grand Challenge (SPGC) on COVID-19 Diagnosis**
(ii) **Received prize money worth 600 USD sponsored by GOOGLE**

PUBLICATIONS

(i) **Do we need a new large-scale quality assessment database for Generative Inpainting based 3D View Synthesis ? (Student Abstract)**
Accepted, AAAI Conference, 2022
Sadbhawna, Vinit Jakhetiya, Sharath C. Guntuku, Deebha Mumtaz, Badri N. Subudhi

(ii) **Stretching Artifacts Identification for Quality Assessment and Enhancement of 3D-Synthesized Views.**
Accepted, IEEE Transactions on Image Processing, 2021
Sadbhawna, Vinit Jakhetiya, Sharath C. Guntuku, Deebha Mumtaz, Badri N. Subudhi

(iii) **Shift Compensation and Cosine Similarity based Quality Assessment of 3D-Synthesized Images**
Accepted, IEEE Transactions on Image Processing, 2021
Sadbhawna, Vinit Jakhetiya, Shubham Chaudhary, Sharath C. Guntuku, Badri N. Subudhi, Weisi Lin

(iv) **Detecting COVID-19 and Community Acquired Pneumonia using Chest CT Scan Images with Deep Learning**
Accepted, IEEE ICASSP 2021 (Arxiv Link: https://arxiv.org/pdf/2104.05121.pdf)
Shubham Chaudhary, **Sadbhawna**, Vinit Jakhetiya, Badri N. Subudhi, Ujjwal Baid, Sharath C. Guntuku

(v) **Distortion Specific Contrast Based No Reference Quality Assessment of DIBR-Synthesized Views**
Published, IEEE MMSP 2020 (Link: https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=9287088)
Sadbhawna, Vinit Jakhetiya, Deebha Mumtaz, Sunil Jaiswal

PRE-PRINTS

(i) **Depth Assisted Quality Assessment of 3D Sythesized Views**
Under Review, IEEE Transactions on Multimedia
Sadbhawna, Vinit Jakhetiya, Badri N. Subudhi, Sunil P. Jaiswal, Leida Li, Weisi Lin

REVIEWER

Actively reviewing IEEE Journals such as,
(i) IEEE Signal Processing Letters
(ii) IEEE Access
(iii) IET Image Processing

TEACHING EXPERIENCE

(i) **Computer Vision** Jan 2020-July 2020
Indian Institute of Technology, Jammu
Teaching Assistant with Dr. Vinit Jakhetiya (Assistant Professor)

(ii) **Design and Analysis of Algorithms** July 2019-Dec 2019
Indian Institute of Technology, Jammu
Teaching Assistant with Prof. Devesh C. Jhinwala

SERVICE AND LEADERSHIP

(i) **Machine Learning Workshop Organizer**
Indian Institute of Technology, Jammu

(ii) **Graduate Admissions: CSE, IIT Jammu**
Reviewed applications for AI Research Area