BHAVESH PARMAR

INNOVATOR | MENTOR | EDUCATOR
BIOMEDICAL | AI | MEDICAL IMAGING

"PASSIONATE INNOVATOR AND EMPOWERING MENTOR—INSPIRING THE NEXT GENERATION OF LEADERS AND CHANGEMAKERS."

"INNOVATIVE EDUCATOR AND MENTOR IN BIOMEDICAL, AI, AND MEDICAL IMAGING, DRIVING TRANSFORMATIVE ADVANCEMENTS THROUGH RESEARCH, TECHNOLOGY, AND INTERDISCIPLINARY COLLABORATION."

CONTACT

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bhparamar@gmail.com

LANGUAGES

Gujarati
Hindi
English
Marathi

PROFESSIONAL SKILLS

- Counselling — 85
- Problem-Solving Ability — 90
- Communication Skills — 80
- Research & Development — 70
- Regulatory Knowledge — 60
- Project Management — 75

TECHNICAL SKILLS

- Biomechanics — 75
- Deep Learning — 60
- Medical Imaging — 70
- Python — 80
- Matlab* — 75
- 3D Studio* — 60
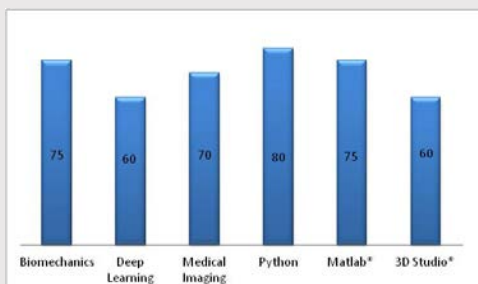
EDUCATION

PhD Biomedical Engineering
2024
Research : "Automated Brain Tumor Segmentation and Survival Prediction using Multimodal MRI"
Gujarat Technological University, Ahmedabad, India.

MTech Biomedical Engineering
2003
Research: "Assessment of Foot Drop Surgery in Hansen Disease using Planter Pressure Images"
Indian Institute of Technology Madras, Chennai, India

BE
2000
Sardar Vallabhbhai National Institute of Technology, Surat, India

WORK EXPERIENCE

L. D. College of Engineering, Ahmedabad, Assistant Professor
11th January 2011 – Current

Ramrao Adik Institute of Technology, Navi Mumbai, Assistant Professor
23rd July 2007 – 10th January 2011

MGM College of Engineering, Navi Mumbai, Lecturer
10th January 2004–22nd July 2007

Indian Institute of Technology Bombay, Mumbai, Research Scholar
23rd January 2003–10th January 2004

PROFESSIONAL ACTIVITIES

Patents: 05 (04 granted)
Research Publications : 24
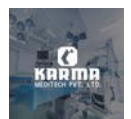Journal : 11 Conference : 13
Expert Talks : 08
Awards : 03
Research Projects: 02
SSIP projects : 07 (03 Completed)

Start-up Mentor for

Doctroid™

BRAINIAC HEALTHCARE

KARMA MEDITECH PVT. LTD.

PATENTS

1. System For Respiratory Co2 Measurement & Monitoring, Patent No. 394921
2. PRAN - Protective Respiratory Auxiliary Node, Patent No. 397604
3. NIVARAN - Non Invasive Vital Sign & Respiratory Analyzer, Patent No. 528219
4. Early Diagnosis Of Rheumatoid Arthritis: Non-Invasively, Patent Application No. 202021021772
5. System And Method For Brain Tumor Classification And Segmentation Using Deep Learning On Embedded Platform, Patent Application No. 202121001807

RESEARCH/INNOVATION PROJECTS

1. 3D Teeth Segmentation and Labelling, RPS – MRP, Gujarat Technological University. 2023 - 24
2. Capacity Building in Edge Computing using Jetson Nano 2GB, NVIDIA, 2021-23
3. PRAN - Protective Respiratory Auxiliary Node, SSIP 1.0 2020
4. NIVARAN - Non Invasive Vital Sign & Respiratory Analyzer, SSIP 1.0 2020
5. Early Diagnosis Of Rheumatoid Arthritis: Non-Invasively, SSIP 1.0 2019-20
6. Digital Pathology, SSIP 2.0, 2023 = ongoing
7. EconoBiliruMonitor – Billirubin meter for neonatal and infants, SSIP 2.0 2024 - ongoing
8. GoniFlex – Optical Goniometer for sports and phyotherapy applications, SSIP 2.0 2024 - ongoing
9. Repair Now – Efficient Service and Maintainance service at door step, SSIP 2.0 2024 – ongoing

SELECTED PUBLICATIONS

1. *"Estimation of uncertainty in Brain Tumor segmentation using modified multistage 3D-UNet on multimodal MRI images"*, B Parmar, M Parikh, Journal of Integrated Science and Technology 12 (5), 802-802, 2024
2. *"Assistive device using computer vision and image processing for visually impaired; review and current status"*, K Patel, B Parmar, Disability and Rehabilitation: Assistive Technology 17 (3), 290-297, 2022.
3. *"Brain Tumor Segmentation and Survival Prediction Using Patch Based Modified 3D U-Net"*, Bhavesh Parmar, Mehul Parikh, Brainlesion: Glioma, Multiple Sclerosis, Stroke and Traumatic Brain Injuries: 6th International Workshop, BrainLes 2020, Held in Conjunction with MICCAI 2020, Lima, Peru, October 4, 2020, Revised Selected Papers, Part II, 2021
4. *"Enhancing Radiographic Dental Image Visualisation with Colourisation and Graphical User."* K Patel, B Parmar. Journal of Image Processing & Pattern Recognition Progress 7 (2), 2020.
5. *"Body parts detection in gesture recognition using color information"*. S. M. Bopalkar, P. Talwai, and B. H. Parmar, Proceedings of the International Conference & Workshop on Emerging Trends in Technology (ICWET '11). ACM, New York, NY, USA, 149–152. 2011.
6. "Image restoration using adaptive switching median filter," K. M. Moon, M. D. Patil and B. Parmar, IEEE International Conference on Computational Intelligence and Computing Research, Coimbatore, India, 2010, pp. 1-4,
7. *"Assessment of Foot Drop Surgery in Leprosy Subjects Using Frequency Domain Analysis of Foot Pressure Distribution Images."* 13th International Conference on Biomedical Engineering. IFMBE Proceedings, vol 23. Springer, Berlin, Heidelberg. 2009.

PROFESSIONAL MEMBERSHIP

International Sociery for Technical Education (**ISTE**) – Life Member
International Society of Automation (**ISA**) – Member
The Medical Image Computing and Computer Assisted Intervention Society (**MICCAI**) – Member
National Biomedical Engineering Society (**NBES**) – Member