

Tajamul Ashraf

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RESEARCH INTERESTS

My research focuses on integrating computer vision with medical AI and information retrieval. Specifically, I am interested in developing advanced computer vision systems with applications in medical imaging, autonomous driving, and AI-driven solutions for real-world scenarios.

EXPERIENCE

- Microsoft Research** Bangalore, India
Research Intern (Full-time) July 2024 - current
 - Knowledge Graph-based Information Retrieval:** Retrieval Augmented Generation (RAG).
 - Working on Medical Chatbots:** Designing a semi-structured knowledge base (SKB) using LLMs.
- Leena AI** Delhi, India
Software Engineer (Full-time) May 2022 - Oct 2022
 - Product, Engineering & ML team:** Executed full lifecycle softwares.
 - Worked in cross-functional projects.:** Architected the solutions to meet client requirements.
- Artpark** Bangalore, India
Computer Vision Intern (Full-time) Dec 2021 - May 2022
 - Thesis topic:** RoboJanitor- Developed a fully automated washroom cleaning robot
 - Pose Model with REST API for Production:** Developed 3D pose models and REST APIs for production.
 - Automated Pipelines:** Created pipelines using Airflow.
 - CI/CD:** Successfully implemented CI/CD flows on Gitlab.
- Indian Institute of Science** Bangalore, India
Research Intern (Full-time) Mar 2021 - Sep 2021
 - Developed a novel human pose comparison model :** Aided yoga teachers during online classes with training
 - Blaze Pose:** To mark the key-points of both teacher and students and compares both and instructs the students according to the teacher.
- BSNL, Advanced Level Telecom Centre** UP, India
Cyber Security and Networking Intern (Full-time) Jan 2019 - Jun 2019
 - Troubleshooting and solving network problems:** Wireless technologies (such as Wi-Fi, Bluetooth) and security

EDUCATION

- Indian Institute of Technology Delhi** New Delhi, India
Masters in Computer Science, MS(Research) 2022 - 2024
Thesis: Unsupervised and Source-Free Domain Adaptation in Breast Cancer Detection using Mammograms.
Courses: Computer Vision, Machine Learning, Special Topics in ML, Deep Learning, Natural Language Processing, Ethics in CS
- National Institute of Technology Srinagar** Kashmir, India
Bachelor of Technology - Information Technology, CGPA: 8.34 2018 - 2022
Thesis: Robust Deep Learning Models for Analyzing the Impact of Coherent Climatic Factors on Climate Change.
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases

SKILLS

- Domains:** Computer Vision, Machine Learning, Information Retrieval, Domain Adaptation, Medical Imaging.
- Languages:** Python, C++, JavaScript, Bash, HTML/CSS.
- Frameworks:** Pytorch, OpenCV, TensorFlow, Keras, Django, Flask, Flutter.
- Tools:** Airflow, Docker, GIT, MySQL, SQLite.
- Soft Skills:** Leadership, Event Management, Public Speaking.
- Initiatives:** Founder Ralith Milth (NGO on drug abuse), AT Talks (Podcast discussing technology and society.)

SELECTED PUBLICATIONS

- Conference:** Tajamul Ashraf, Krithika Rangarajan, Mohit, Richa, Chetan Arora, *D-MASTER: Mask Annealed Transformer for Unsupervised Domain Adaptation in Breast Cancer Detection from Mammograms*, MICCAI 2024. [\[Link\]](#)
- Conference:** Tajamul Ashraf, Tisha Madame, *HF-Fed: Hierarchical based customized Federated Learning Framework for X-Ray Imaging*, MICCAI Workshop 2024. [\[Link\]](#)
- Conference:** Tajamul Ashraf, Fuzayil-bin-Afzal Mir, Iqra Altaf Gillani *TransFed: A way to epitomize Transformer based Focal Modulation using Federated Learning*, WACV 2024. [\[Link\]](#)
- Conference:** Tajamul Ashraf, Balaji Prabu BV, and Omkar S. J Narasipura, *PoseWatch: Advancing Real Time Human Pose Tracking and Juxtaposition with Deep Learning*, CVIP 2023. [\[Link\]](#)
- Conference:** Tajamul Ashraf, Naiyer Abbas, M. Haseeb, Nadeem, Janibul Bashir, *An Integral Computer Vision System for Apple Detection, Classification, and Semantic Segmentation*, ICMV 2022. [\[Link\]](#)

LANGUAGES

- English (C2) , Kashmiri (Native), Urdu (C2), Hindi (C1), French (A2, Arabic (B1)

Last Updated: August 2, 2024