

# Anisha Jain

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## EDUCATION

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- Carnegie Mellon University – Robotics Institute, School of Computer Science** Pittsburgh, PA  
*Master of Science in Computer Vision (MSCV) - GPA 4.22/4* Dec 2024  
Relevant Coursework: Learning for 3D Vision, Visual Learning and Recognition, Learning based Image Synthesis  
Reinforcement Learning, Physics Based Rendering  
Graduate Teaching Assistant: Data Science Capstone, Spring 2024 (Prof. Eric Nyberg)
- National Institute of Technology (NIT), Warangal** Warangal, India  
*Bachelor of Technology, Computer Science and Engineering - GPA 9.06/10* May 2021  
**Institute Merit Scholarship Recipient** (for all academic years)

## EXPERIENCE

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- Meta Reality Labs** Pittsburgh, PA  
*Research Collaborator (Capstone Project)* Dec 2023 - Present  
(Advisor: [Prof Laszlo A. Jeni](#), CUBE Lab & [Michael Zollhoefer](#), Meta Reality Labs)  
• Working on real-time dynamic scene reconstruction using Gaussian Splatting focusing on non-rigidly deforming scenes captured by RGBD sensors
- Microsoft (R&D) Pvt Ltd.** Hyderabad, India  
*Software Engineer* Jun 2021 - Jul 2023  
• Slashed ML model iteration for spam/phish detection from a *month to under 2 hours*, boosting threat response  
• Streamlined feature extraction, optimizing analysis of *10 billion emails daily* for a more efficient email filter  
• Innovated end-to-end process for assessing novel features' impact on model performance in *Apache Spark*
- Software Engineer Intern* May 2020 - Jul 2020  
• Elevated accessibility during *offline usage in Android Teams app*, elevating user experience and productivity  
• Implemented a robust cache eviction mechanism, optimizing offline read flow for varied network call latencies  
• Conducted a Progressive Web App (PWA) proof of concept, further enhancing app's offline capabilities
- Google** Remote  
*Software Product Sprint* Jul 2020 - Sep 2020  
• Collaborated with a team of 4 to design, develop and launch a movie and book recommendation engine  
• Applied a *matrix factorization model* with collaborative filtering and content embedding for effective training
- Indian Institute of Science - Computational Intelligence Lab** Bengaluru, India  
*Research Intern* May 2018 - Jun 2019  
(Advisor: [Dr Amarjot Singh](#), Founder & CEO, SkyLark Labs, & [Dr Onkar](#), IISc)  
• Achieved an *87.8% accuracy in detecting suspicious activities* by implementing SH-PAF Network to estimate pose for humans, whose output is further fed to 3D ResNext to capture the motion of an individual  
• *Addressed critical research gap* by curating dataset of 2400+ videos of individuals in loosely fitted attire  
• Co-authored and *published* a research paper at ICCVW

## SKILLS

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Programming Languages – Python, C, C++, C#, Java  
Frameworks – SQL, Numpy, Pandas, PyTorch, TensorFlow, OpenCV, Pillow, Scikit-Learn, .NET, Spark, Apache PySpark  
Tools – CUDA, Git, Docker, Linux, Blender, Android, AWS

## PROJECTS

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- GaussCraft: Language Driven Segmentation and Editing in 3D Using Gaussian Splatting** [[poster](#)] Feb 2024  
• Distilled high-quality object-centric vision-language features into 3D Gaussians to model scene appearance  
• Empowers users to perform scene decomposition and appearance editing using text queries
- GIF-Tune: One-Shot Tuning for Continuous Text-to-GIF Synthesis** [[website](#)] Feb 2024  
• GIF generation leveraging one-shot learning in Text-to-Image models ensuring temporal continuity and depth consistency  
• Utilized spatial transformer architecture to facilitate continuous motion learning within the model
- Unsupervised Reinforcement Learning across multiple environments** [[arxiv](#)] Oct 2023  
• Boosted exploration efficiency by 40% by integrating curiosity-driven exploration and visitation entropy objectives, enhancing RL agent versatility

## PUBLICATIONS

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A. Singh, A. Kumar and A. Jain, "[Bayesian Gait-Based Gender Identification \(BGGI\) Network on Individuals Wearing Loosely Fitted Clothing](#)," 2019 IEEE/CVF International Conference on Computer Vision Workshop (ICCVW), Seoul, Korea (South), 2019, pp. 1828-1835, doi: 10.1109/ICCVW.2019.00227