Anisha Jain

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EDUCATION

Carnegie Mellon University - School of Computer Science *Pittsburgh, PA*
Master of Science in Computer Vision (MSCV) *Dec 2024*
Relevant Coursework: Adv. Computer Vision, Robot Learning, Machine Learning

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

Microsoft (R&D) Pvt Ltd. *Hyderabad, India*
Software Engineer *June 2021 - July 2023*
- Reduced ML model iteration cycle for mail flow spam/phish detection from *a month to less than 2 hours*
- Orchestrated a nimble feature extraction for model inputs impacting *10B emails* everyday
- Pioneered an end-to-end process for appraising the impact of novel features on model performance within Apache Spark, seamlessly incorporating .NET runtime functionalities through .NET for Spark integration

Software Engineer Intern *May 2020 - July 2020*
- Integrated capability for offline read flow in Android Teams app for enhanced user experience and productivity
- Implemented LRU cache eviction mechanisms utilizing Android's inherent storage techniques of disk cache and shared preferences

Software Engineer Intern *May 2019 - July 2019*
- Improved employee efficiency by *70%* with an Intranet app on Microsoft Teams reducing context-switch time
- Created AI bots with adaptive cards and messaging extension for better interactivity

Indian Institute of Science - Computational Intelligence Lab *Bengaluru, India*
Research Intern *May 2018 - June 2019*
(Advised by Dr Amarjot Singh, Founder & CEO, SkyLark Labs, and Dr Onkar, IISc)
- Designed a Gender Identification pipeline for subjects wearing loose-fitted clothing using Bayesian Gait based gender identification network with an accuracy of *87.8%* in detecting suspicious activities
- Curated an unprecedented dataset of *2400+* videos showcasing individuals in loosely fitted attire, filling a critical gap for present and future research needs
- Successfully co-authored and published a research paper (mentioned below)

PUBLICATIONS

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.

SKILLS

Programming Languages – Python, C, C++, C#, Java
Frameworks – Numpy, Pandas, PyTorch, TensorFlow, OpenCV, Pillow, Tesseract, .NET, Spark, Apache PySpark
Tools – Git, Docker, Linux, Blender, Android

PROJECTS

Unsupervised Reinforcement Learning across multiple environments *Oct 2023*
- Increased exploration efficiency by *40%* over the alpha-MEPOL algorithm by successfully integrated curiosity-driven exploration and Maximum State Visitation Entropy (MSVE) objectives, resulting in a more versatile and adaptive RL agent
- Conducted rigorous experimentation and statistical analysis to validate the impact, showcasing the technical prowess and practical significance of the developed approach

Photo that comes to life [Code] *Sept 2023*
- Crafted a real-time augmented reality system employing ORB and FLANN feature matching algorithms for seamless high-fidelity video content overlay onto incoming feeds using homography transformations
- Achieved a blazingly fast *60fps* rendering speed through meticulous parallelization techniques, ensuring a seamless and immersive user experience