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, Intro. to Robot Learning, Intro. to 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   *Hyderabad, India*
Software Engineer, Microsoft Defender for Office (MDO)   *June 2021 - July 2023*
- Reduced the ML model iteration cycle for mail flow spam/phish detection from a month to less than 2 hours
- Orchestrated a nimble feature extraction approach harmoniously embedded within model inputs
- 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, Microsoft Teams Mobile   *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, The Garage   *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 (IISc), Bengaluru   *Bengaluru, India*
Research Intern   *May 2018 - June 2019*
(Advised by Dr Amarjot Singh, Founder & CEO, SkyLark Labs, and Dr Onkar, IISc)
- Curated an unprecedented dataset of 2400+ videos showcasing individuals in loosely fitted attire, filling a critical gap for present and future research needs
- Employed an enhanced Part Affinity Field (PAF) technique within a dropout-regularized 3D-ResNet model
- Achieved >4% accuracy boost in obscured gait-centric gender classification compared to state-of-the-art methods
- 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, Blender, Android

PROJECTS

Lunar Lander Simulation [Code]   *Independent Study | May 2023*
- Gained insight into autonomous lunar rover landing using Deep Q-Network and epsilon-greedy exploration in OpenAI's Gym environment.
- Incorporated a target network for stability and optimizing convergence through experience replay.

SaliencyMap: Visualizing Cat vs. Dog Classifier Decisions [Code]   *Independent Study | Feb 2023*
- Acquired expertise in gradient-based visualization techniques within neural networks, bolstering deep learning interpretability skills and fortifying model transparency and feature attribution.

Software Product Sprint (program for selected 150 students from APAC region)   *Google APAC | July 2020*
- Developed a web application utilizing Collaborative Filtering algorithm to craft binge-watch lists, submit reviews, and receive personalized recommendations from an assortment of movies, web shows, and books