Eesha Shetty

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EDUCATION

Carnegie Mellon University | Pittsburgh, PA | **GPA: 3.96/4**   May 2024
Master of Science (MS), Artificial Intelligence and Innovation
- **Selected Coursework –** Deep Learning, Machine Learning, Visual Learning and Recognition, Advanced Natural Language Processing, On-Device ML

Vellore Institute of Technology | Vellore, India | **GPA: 8.71/10**   August 2022
Bachelor of Technology (BTech), Computer Science and Engineering
- **Selected Coursework –** Data Structures and Algorithms, Artificial Intelligence
- **Leadership –** Technical Director at ACM Student Chapter - oversaw projects, organized hackathons.

SKILLS

Technical Skills: Machine Learning, NLP, Computer Vision, Software Engineering
Programming Skills: Python, Java, Tensorflow, PyTorch, PySpark, C++, Javascript, Git, AWS, Docker
Languages: English (Fluent/Native), Hindi (Fluent/Native)

INDUSTRY EXPERIENCE

Cassian Solutions | Remote, PA   May 2023 – August 2023
Software + Machine Learning Engineering Intern
- Implemented a Machine Learning model deployed in AWS SageMaker to forecast the optimal timing for engaging patients in specific portal actions, resulting in streamlined patient response times.

Amazon | Remote, India   January 2022 – June 2022
Software Development Engineering Intern
- Developed an event notification system utilizing AWS SQS and Lambda to facilitate smooth customer transitions to a new service.
- Designed and implemented a Data Warehousing solution with AWS Redshift

Drive Analytics | Remote, India   September 2021 – December 2021
Computer Vision Intern
- Trained Baseball Player Classification Models on Tensorflow, utilizing Body Pose Detection, incorporating advanced techniques such as YOLO Object Detection and Tracking.

PROJECTS

Learning Mutational Signatures   February 2023 – Present
Independent Study Project, Xu Lab and Lehmann Lab
- Researching methods for extracting mutational signatures in cancerous cells using matrix factorization methods

Referring Audio Segmentation [tinyurl.com/idl-report]   March 2023 – May 2023
Academic Project, Deep Learning
- Developed a robust solution for detecting and localizing specific sound events in audio clips.
- Utilized 2D mel-spectrograms, image segmentation techniques, and models like VGGish and EfficientNet to enhance baseline model's performance, achieving competitive F1 scores with lower loss.

Indian Sign Language Detection [tinyurl.com/eesha-isl]   June 2022 – July 2022
Personal Project
- Employed the MediaPipe model to enhance Indian Sign Language detection by overcoming limitations associated with traditional skin segmentation methods, including lighting and skin tone variations.