Ashish **Ramayee Asokan**

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Education

PES University Banaalore, India

B.Tech in Computer Science and Engineering (GPA: 9.52/10, Top 3%)

Aug. 2018 - Sept. 2022

- Received Prof. CNR Rao and Prof. MRD Scholarships for Academic Performance
- · Relevant Coursework: Topics in Deep Learning, Information Retrieval, Big Data, Machine Intelligence, Linear Algebra, Data Analytics

Carnegie Mellon University

Pittsburgh, PA

Aug. 2024 - Dec. 2025

MASTER OF SCIENCE IN MACHINE LEARNING (MSML)

· Relevant Coursework: Advanced Intro. to ML, Representation Learning

Publications (* indicates equal contribution) _

WORKSHOP PROCEEDINGS

Distilling from Vision-Language Models for Improved OOD Generalization in Vision Tasks Sravanti Addepalli*, Ashish Ramayee Asokan*, Lakshay Sharma, R Venkatesh Babu CVPR Workshop on Open-Domain Reasoning Under Multi-Modal Settings (ODRUM), 2023

CONFERENCE PROCEEDINGS

Leveraging Vision-Language Models for Improving Domain Generalization in Image Classification Sravanti Addepalli*, Ashish Ramayee Asokan*, Lakshay Sharma, R Venkatesh Babu IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR), 2024

DeiT-LT: Distillation Strikes Back for Vision Transformer Training on Long-Tailed Datasets Harsh Rangwani, Pradipto Mondal, Mayank Mishra, Ashish Ramayee Asokan, R Venkatesh Babu IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR), 2024

Aligning Non-Causal Factors for Transformer-based Source-Free Domain Adaptation

Sunandini Sanyal*, Ashish Ramayee Asokan*, Suvaansh Bhambri, Pradyumna YM, Akshay Kulkarni, Jogendra Kundu, R Venkatesh Babu IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2024

Domain-Specificity Inducing Transformers for Source-Free Domain Adaptation

Sunandini Sanyal*, Ashish Ramayee Asokan*, Suvaansh Bhambri*, Akshay Kulkarni, Jogendra Nath Kundu, R Venkatesh Babu IEEE/CVF International Conference on Computer Vision (ICCV), 2023

Interpretability for multimodal emotion recognition using concept activation vectors Ashish Ramayee Asokan, Nidarshan Kumar, Anirudh V Ragam, Shylaja Sharath

IEEE International Joint Conference on Neural Networks (IJCNN), 2022

Skills_

Programming Python, C/C++, C#, JAVA, LaTeX, MATLAB

Machine Learning PyTorch, Keras, Tensorflow, Tensorflow Lite, OpenCV, W&B

Big Data Analytics Hadoop, Spark, Spark Streaming

Experience

Intel Corporation

Vision and AI Lab, Indian Institute of Science

Bangalore, India

PREDOCTORAL FELLOW (ADVISED BY PROF. VENKATESH BABU)

May 2022 - July 2024

- Worked on Domain Adaptation (ICCV'23, WACV'24), Domain Generalization (CVPRW'23, CVPR'24) and Long-Tail Learning (CVPR'24).
- Led a research collaboration with **Boeing** on Airport Ground Management Analytics.
- Supervised a team of 3 interns who contributed to my projects.

Bangalore, India

Aug. 2021 - Jan. 2022

RESEARCH INTERN - VERTICAL SOLUTIONS AND SERVICES GROUP

- Worked on Continual Learning to mitigate Catastrophic Forgetting in Neural Networks
- Explored Federated Learning, Network Pruning, Hierarchical Learning and Regularization methods.



IMER: Interpretability for Multimodal Emotion Recognition

Bangalore, India Aug. 2021 - Jan. 2022

FINAL YEAR CAPSTONE PROJECT, ADVISOR: DR. SHYLAJA SHARATH

- · Explored Interpretability for Multimodal Emotion Recognition using Concept Activation Vectors (CAVs).
- · Proposed novel human-understandable concepts for the interpretability of emotion recognition models.
- Evaluated the proposed concepts at multiple layers of the BC-LSTM network.

• Fourier Feature Mapping Networks

Bangalore, India

July. 2020

PERSONAL PROJECT - PAPER IMPLEMENTATION

- Implemented Fourier Feature Mapping for Coordinate-based MLP's in Tensorflow.
- This was a part of Paper Projects, a paper reproducibility initiative by MadeWithML

Semantic Segmentation using ENet

Bangalore, India

PERSONAL PROJECT - PAPER IMPLEMENTATION

July. 2020

- Implemented efficient semantic segmentation using the ENet architecture.
- Link to paper: Semantic Segmentation using ENet

FPL Analytics using Streaming Spark

Bangalore, India Nov. 2020 - Dec. 2020

COURSE PROJECT FOR BIG DATA

- Developed a Real Time Analytics Application for FPL data using Streaming Spark
- · Computed various stats for each player on a per-match basis where the data was streamed match-wise
- Tools used: PySpark, MlLib, Hadoop

Academic Service

Reviewer AISTATS 2024, CVPR 2024, ECCV 2024, NeurIPS 2024

Sub-Reviewer ICLR 2024, NeurIPS 2023, ICCV 2023

Program Committee Al-ML Systems 2023, Al-ML Systems 2024

Honors & Awards

2024	Outstanding Reviewer Award, CVPR 2024 , Awarded to the Top 2% reviewers at CVPR 2024	Seattle, US
2023	Kotak IISc AI-ML Research Fellowship, Competitive Research Fellowship at IISc, Bangalore	Bangalore, India
2018-22	Prof. CNR Rao Scholarship , Awarded for being among the top 2% performers of the CS Dept.	Bangalore, India
2018-22	Prof. MRD Scholarship , Awarded for being among the top 20% performers of the CS Dept.	Bangalore, India

Professional Development

Deep Learning Specialization

Online

DEEPLEARNING.AI

Coursera

June 2020 - July 2020

April 2020 - May 2020

- A five course Specialization on Deep Learning with Andrew Ng as the instructor
- Topics Covered: CNNs, Sequence Models, Hyperparameter Tuning, Structuring ML Projects

Machine Learning Online

• A course offered by Stanford University covering the fundamentals of Machine Learning

- Topics Covered: Regression, Artificial Neural Networks, SVM, Dimensionality Reduction