AISHWARYA NAIR

anair@umass.edu | https://www.aishwaryaanair.github.io/Resume

EDUCATION

Masters of Science in Computer Science
University of Massachusetts – Amherst (Manning College of Information and Computer Sciences)
September 2023 – July 2025 (Expected)
Coursework: Methods of Applied Statistics (STAT 501), Machine Learning (CS 589), Reinforcement Learning (CS 684)

Bachelor in Engineering in Information Technology
V.E.S. Institute of Technology – Mumbai.
August 2017 – September 2021

- CGPA: 9.14/10
- Stood top 5 in the department of Information Technology 4 times.

WORK EXPERIENCE

Artificial Intelligence/Machine Learning Engineer
Heystack Inc.
September 2021 – August 2023

- Identified 23 emotions expressed after eating savoury snacks and created a comprehensive lexical ontology to classify the emotions for a Fortune 50 company.
- Created an algorithm to classify text based on these 23 emotions to record ~70% accuracy with fine-tuned MPNet and BERT models.
- Managed a team of 5 for data management and data creation.
- Increased accuracy of existing text classification framework by an average of **20%** by creating fine-tuned transformer models to classify text based on 20 actionable parameters to give insights to Fortune 500 companies.
- Deployed an API on AWS to service ~2000 requests to classify text based on 20 topics.
- Created an algorithm to separate clauses out of sentences using morphological analysis used to augment the accuracy of the transformer models

PROJECTS

Forest fire prediction using LSTM models
Student team leader
January 2020 - May 2021

- Awarded a research grant by the Microsoft under the AI for Earth program.
- Achieved ~85% accuracy on LSTM model with Python, Tensorflow and Azure using data from FIIRMS obtained from NASA for India which improves the pre-existing prediction mechanisms for Indian vegetation.
- Supervised a team of 4 for data management and data collection and 2 web designers.

Assistive Smart Stick for Independent and Safe Navigation (ASSIST)
Team Leader
September 2019 - March 2020

- One of 49 teams selected for regional finals for e-Yantra Ideas Competition organized by IIT Bombay among a total of 1346 teams.
- Developed an image detection model with 83% accuracy to identify objects in front of user that provides information about safe and unsafe locations for visually impaired users.
- Led a team of 2 for IOT maintenance and 1 for web development.
- Created a visually impaired friendly web application with speak aloud facility for location tracking and hands free navigation.