Sayali Moghe

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EDUCATION

Carnegie Mellon University (CMU) - School of Computer Science Pittsburgh, PA
Master of Science in Artificial Intelligence and Innovation | GPA: 3.67/4.00 May 2023
Relevant Coursework: Machine Learning, Deep Learning, Visual Learning and Recognition, Natural Language Processing

Vivekanand Education Society's Institute of Technology (VESIT) Mumbai, India
Bachelor of Engineering in Information Technology | GPA: 9.39/10.00 June 2021
Relevant Coursework: Data Mining and Business Intelligence, Artificial Intelligence, Big Data Analytics
Honors: Ranked III in Academic Year 2018-19

EXPERIENCE

Teaching Assistant for Machine Learning for Problem Solving January 2022 - *Ongoing*
Carnegie Mellon University

- Grading and analyzing assignments of over 100 students
- Resolve queries concerning concepts of Machine Learning in the real world

PROJECTS

Question Answering System January 2022 - *Ongoing*
Carnegie Mellon University

- Built the dataset manually through collection of questions and answers from multiple articles
- Performing sentence segmentation, tokenization, NER for preprocessing and generating questions
- Implemented an attention-based transformer model using embeddings to produce the best answer to the question

Movie Recommendation System December 2021 - February 2022
Carnegie Mellon University

- Developed a machine learning-based movie recommendation system designed to support up to 1 million users
- Built the deployment server in Flask to host machine learning model and listen to requests on Kafka stream
- System provided recommendations within 500 ms for 40% of user requests

Deep Learning Based Face Mask Detection and Crowd Counting January 2020 - March 2021
Vivekanand Education Society's Institute of Technology

- Applied YOLOv3 algorithm for object detection used in real-time discovery for detecting faces.
- Developed a model to evaluate social distance between people using pre-trained weights provided by YOLOv3, with an accuracy of 90%.
- Designed a crowd counting model to calculate the number of people utilizing object detection, achieving an accuracy of 94%.
- Published a research paper in Institute of Electrical and Electronics Engineers (IEEE) Xplore on May 10, 2021.

Long Term Capacity Planning October 2018 - February 2019
Project Deep Blue

- Participated in competition Project Deep Blue to predict water demand in Mumbai, India.
- Analyzed 5-year water consumption of data from Bombay Municipal Corporation. Handled extrapolation of unavailable data using data
- Predicted water demand and consumption will be 10% times higher within the next decade. Awarded position of semifinalists for effort and results.

SKILLS

Programming Languages: Python, Java, C
Frameworks and Tools: PyTorch, TensorFlow, NumPy, Pandas, Kafka, scikit-learn, Git, Django, Django REST Framework, XAMPP, Flask