

ADITYA GAIKWAD

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EDUCATION

Masters of Engineering in Artificial intelligence, Stevens Institute of Technology, Hoboken, NJ (GPA:4.0/4.0) *December 2022*
Coursework: *Applied Machine Learning, Pattern Recognition, Web mining, Statistics and Probability Theory, Big Data, Deep Learning*

Bachelors of Engineering in Electronics, Mumbai University, Mumbai, IN **(GPA: 3.8/4.0)** *May 2019*
Dual Minor in Computer science
Coursework: *Design of Linear circuits, Operating systems, Data structures, Power electronics, Introduction to Artificial intelligence*

PROFESSIONAL EXPERIENCES

Data Science intern, Healium, CA, USA.

February 2022 – Present

- With the help of an API ,image processing of licenses and insurance cards had been done incorrectly so worked over a solution to correct the problem.
- Started annotating image files using roboflow for features like name ,address , license number , gender, etc.
- Started working on YOLOv5l for training this image data to extract proper tags.

R&D & AR/VR analysis Engineer, Danano Photonics, Thane, India.

January 2020 - December 2020

- Providing new technological solutions, comparison reports of present AR/VR devices and software platforms required
- Working on alternate power source and new light field display technology with better field tracking and detection
- Communication with companies over products and collaboration.
- Creation of golf light DPR and design using software.
- Managing team over drone port project and scheduling tasks of every person

Electronics Engineer, Thane Municipal Corporation, Thane, India.

July 2019-December 2019

- Going through and suggesting the number of cameras and camera companies for city security and smart traffic control systems
- Working on a smart education center for creating awareness among kids with informative science platforms and RFID tags for each student taking part
- Shortlisting companies that can help create an experience center equipped with Augmented/Virtual reality for commercial and professional use

Researcher, Danano Photonics, Mumbai, India

March 2018 - November 2018

- Designing and researching new technologies for drones and alternate renewable power sources using nanostructures
- Analysing research papers and finding the best solution for terahertz communication and sensing technologies using terahertz metamaterials
- Researching about best nano thermoelectric generators and Photonic integrated circuits(PIC)

PROJECTS

NEWS ARTICLE CLUSTERING ANALYSIS

August 2021-December 2021

- Scraped data from four total news websites of two different countries using selenium
- Performed data cleaning and pre processing by dropping null values and using regex to take specific information from text data
- Performed text cleaning, punctuation removal, trailing and leading space removal, lemmatization and converted all letters to lowercase.
- Vectorized text using Bag of Words, Term frequency-Inverse Document Frequency and Word2Vec
- Performed clustering using Kmeans , Agglomerative clustering, DBSCAN, Gaussian mixture model and
- performed topic modelling using Latent Dirichlet Allocation to physically review the clusters again.
- Performed internal evaluation using Silhouette score, Davies Bouldin score and Calinski Harabasz score with BERT as the common encoder for text.

SPEECH EMOTION RECOGNITION

August 2021- December 2021

- Used a labelled dataset which has different speech samples along with labels of emotions for predicting emotions
- Performed data cleaning, one hot encoding and data pre-processing
- Used Support vector machine ,Random forest , Decision tree and KNN to compare the results of prediction with and without parameter tuning

AUGMENTED/VIRTUAL REALITY IN SCHOOL AND EXPERIENCE CENTER

July 2019-December 2020

- Created reports on present AR/VR products and the technology incorporated
 - Created blueprints of better power sources, computing and display technologies through research
 - Collaborated with EON realty on the experience center project and gave demonstrations on AR/VR technology and experience center to the government
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SKILLS

Algorithms : Linear regression, Logistic Regression, KNN, Support Vector Machine, Naïve Bayes, DBSCAN, Backpropagation

Programming: Java, Python, MySQL, P-spice, Fusion Autodesk, Tableau

Hardware: Arduino, Microcontrollers, MEMS, Power electronic devices

