PROJECT DIARY

Guide: K. Ashesh

180030120	Vasavi Gannina
180030887	Neerukonda Sai Sruthi
180030956	Chekuri Chekitha
180031226	Hari Priya Puppala

Date	Working Status	Guide/Mentor
5 th August, 2021	Previous Work: Pre-processed the data to implement the project (A Review of Object – Based Detection using Convolutional Neural Networks) Current Work: Change of project and team mates from the previous semester; Yet to finalize the project we will be working on for this semester Future Work: Discuss and agree on a project topic with the guide	
12 th August, 2021	 Previous Work: Searched up projects to finalize on RMDL: Random Multimodal Deep Learning for Classification Seismic Facies Analysis using State of the Art Architecture: A Deep Domain Adaptation Approach Disease Diagnosis using Deep Learning Nutrition Analysis and Diet Recommendation Object Based Detection using Deep Learning Finding out habitable exoplanets from images captured by space vehicles like Kepler Text Classifier for Hierarchical Attention Networks for Document Classification 	

Implementation of Deep Learning Modules to Generate Music with Keras, Theano and **LSTMs** Reinforcement Learning Approach to Automatic Stroke Generation in Oriental Ink **Painting** - Secure Recommender Mechanism for E-Commerce Current Work: (PROBLEM STATEMENT) Finalized the project with the guide -Text and Document Classification using **Hierarchical Neural Networks** Future Work: Acquiring the datasets and prioritizing the data Previous Work: Finalized the problem statement with the guide <u>Current Work</u>: Reading reference **Papers** 1. Deep Learning for document classification 2. Hierarchical transformers for long document classification 3. Multimodal deep networks for text and image-based document 19th August, 2021 classification 4. A rule-based approach to embedding techniques for text document classification 5. Hierarchical deep networks for text and image-based document classification 6. Comparison of data augmentation methods for legal document classification

	 7. Hierarchical neural networks for document classification 8. Hierarchical attentional hybrid neural networks for document classification 9. Automatic document classification 10. Hierarchical attention models for text classification Future Work: Choosing a reference paper 	
26 th August, 2021	Previous Work: Downloaded and went through the downloaded reference papers Current Work: Choosing one paper as the reference and base paper for the project Future Work: Preparation of abstract and introduction	
2 nd September, 2021	Previous Work: Read all the downloaded reference papers Current Work: Preparation of abstract and introduction Future Work: Collecting the data and preparing or constructing a data set	
9 th September, 2021	Previous Work: Preparation of abstract and introduction Current Work: (DATA STRUCTURE AND SOURCE) Going through the problem statement and understanding the implementation of Neural Networks (the solution) in the project in order to	

	construct a dataset; collecting diverse and unbiased datasets for reference <i>Future Work</i> : Pre-processing the data and feature extraction	
17 th September, 2021	Previous Work: Exploring the data and understanding the labels Current Work: (DATA ANALYSIS) Identifying the labels and features in the data collected; reformatting and augmenting the data Future Work: Preparing the tools; training and testing the models	
24 th September, 2021	Previous Work: Data analysis and feature extraction from the given dataset Current Work: Working on the Attention Layer which is applied on word level and then on sentence level Future Work: Building the HAN model and training it	
1 st October, 2021	Previous Work: Building the Attention Mechanism Layer Current Work: Combining the layers on word level, sentence level (TimeDistributed) and document level (Dense) in the HAN model Future Work: Training the model and verifying the results for training, validation and test set	

8 th October, 2021	Previous Work: Working with the parameters of HAN model and its performance Current Work: Training the model through different number of epochs to avoid overfitting Future Work: Review the model's performance and compare it with others	
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