SRM UNIVERSITY, ANDHRA PRADESH
SUMMER INTERNSHIP COURSE, June 2024
WEEKLY DIARY REPORT
(STUDENT BATCH 2022-26)

Name of the Student: Krishna Sharma
ID NO: AP22110010128
Company Name: Zeronsec
Name of Faculty Mentor: Dr. Amit Kumar Mandal

Daily Work Breakdown

Week 1 from 30th May 2024 to 8th June 2024	
Day 1	Introduction to machine learning. What is machine learning. Advantages of machine learning.
Day 2	What are the various methods or algorithms in machine learning and how to decide which one to use. Method to compare: cross validation and to summarise our learning we can build a confusion matrix
Day 3	How can we read a confusion matrix. We can understand the data of cross validation by measuring following things: • Precision • Recall • Sensitivity • Specificity
Day 4	Understanding what is bias and variance, and how can we use them to understand performance of a model.
Day 5	What is regression and where is it used? What are the different types of regression. What is linear regression and how to build a regression line.
Day 6	Implementing the linear regression example in python using tensorflow keras.
Day 7	Extending linear regression in higher dimensions and understanding its working.
Day 8	What is decision tree and how it works
Day 9	Various examples of logistic regression using python libraries

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Week 2 from 10th June 2024 to 15th June 2024	
Day 1	What are random forests, how it works. Also some examples of random forests in python
Day 2	What are support vector machines, how it works and examples
Day 3	Basic understanding of what is neural network and understand its architecture.
Day 4	Introduction to what are transformers, and where are they used.
Day 5	What is elastic search and kibana.
Day 6	What are advantages of elastic search over other databases

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Daily Work Breakdown

Week 3 from 17th June 2024 to 22th June 2024	
Day 1	Structure of elasticsearch.
Day 2	Performing CRUD operations in elasticsearch and a udemy course on GitHub CoPilot.
Day 3	How to measure relevance of search result in elasticsearch.
Day 4	Performing aggregate operations in elasticsearch
Day 5	Designing outline of project and how to approach. Another udemy course on Github CoPilot.
Day 6	How to do promp engineering and what to keep in mind while designing prompts.

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Daily Work Breakdown

Week 4 from 24th June 2024 to 29th June 2024	
Day 1	Gathering data from different sources to create the dataset required to train the model.
Day 2	
Day 3	
Day 4	Training the data to the model on the dataset created.
Day 5	
Day 6	Tested the model's accuracy.

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Daily Work Breakdown

Week 5 from 1st July 2024 to 6th July 2024	
Day 1	The model's requirements increased, started designing alternate approach.
Day 2	Designed one approach but couldn't see a path to implementing it.
Day 3	Started designing another approach.
Day 4	Continued designing that approach.
Day 5	Tried to create an implementation of that approach.
Day 6	Had a company meeting on what to include on the updated approach.

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(To be submitted to Faculty Mentor over mail with CC to Industry mentor)

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Week 6 from 8th July 2024 to 13th July 2024	
Day 1	Company meeting on what to do further.
Day 2	What is devOPS and MLOPS? Why are they important? And difference in approach for enterprise and startup.
Day 3	
Day 4	
Day 5	
Day 6	Talk with industry mentor about the internship experience.