Government of Karnataka

DEPARTMENT OF TECHNICAL EDUCATION

Palace Road, Bengaluru

457, KLS's SHRI VASANTRAO POTDAR POLYTECHNIC,

TILAKWADI, BELAGAVI-590006

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

"STUDENT DAILY LOG BOOK"

SUBMITTED BY:

YOGESH BALGI	457CS20045
ANISH BUDAVI	457CS20X01

SEM: VI

COURSE NAME WITH CODE: CAPSTONE PROJECT-20CS61S

PATHWAY SUB: CYBER SECURITY -20CS54I

PROJECT TITLE: NETWORK INTRUSION DETECTION

COHORT OWNER:

MRS. UPAMA KULKARNI

2022-2023

Government of Karnataka

Department of Technical Education

Palace Road, Bengaluru

457, KLS's SHRI VASATRAO POTDAR POLYTECHNIC, TILAKWADI, BELAGAVI-590006

"Student Daily Log Book"

SUBMITTED BY:

NAME: YOGESH BALGI REG.NO: 457CS20045

NAME: ANISH BUDAVI REG.NO: 457CS20X01

SEM: VI

ACADEMIC YEAR: 2022-2023

COURSE NAME WITH CODE: CAPSTONE PROJECT -20CS61S

PATHWAY SUB: CYBER SECURITY -20CS54I

PROJECT TITLE: NETWORK INTRUSION DETECTION

COHORT OWNER: MRS.UPAMA KULKARNI

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Capstone Project

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Student's Daily Log Book

Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 1	Date: 27/02/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, I started my requirment gathering for network Intrusion Detection and gain better understanding of the needs and objectives of NID For Nandini C.K Signature of the Cohort owner	
Day- 2	Date: 28/02/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Discussed the scope and objectives of the NID project and also discussed the Business requirment and expectation from the NID system and reviwed and analyzed the Requirment. For Nandini C.K Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 3	Date: 01/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Created a Project Plans and timeline for the requirment gathering process discussed and understand their specific requirments and concerns related to network security and Discussed the types of network traffic that need to be monitored . such as web traffic and file transfer. For Nandini C.B Signature of the Cohort owner	
Day- 4	Date: 02/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi . Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Identified the types of security threats that NID should be able to detect such as malware, Phishing attacks and unauthorized access attempts. And reviwed & analyzed the above mentioned requirment as per NID. For Nandini C.B Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 5	Date: 03/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Conduct the review of existing network Infrastructure to Identify any limitation or challenges that could impact the effectiveness of the NID. Discussed the types of devices and system, that should be monitored by the NID such as servers, Workstation. For Nandini C.H Signature of the Cohort owner	
Day- 6	Date: 04/03/2023
Capstone Project Name: In Network Intrusion Detection.	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Discussed the scope of the project including the network infrastructure and types of traffic that needs to be monitored and discussed the resources of the project as per the Network Intrusion Detection System Project. For Nandini C.H Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 7	Date: 06/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Conducted a review of the existing IT staff skills and knowledge to determine the resource needed for NID management and maintenance. Identified the external resources needed, such as consultant or contractor organization. for Nandini.C.H Signature of the Cohort owner	
Day- 8	Date: 07/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Conducted a review of the compliance requirement that the NID should meet such as HIPAA or PCI, DSS and identify the resources needed. for Nandini.C.H Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 9	Date: 08/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: conducted a review of the existing network infrastructure to identify any hardware or software resources needed for project Identified the types of sensors and detection mechanism needed for the NID. For Nandini Signature of the Cohort owner	
Day- 10	Date: 09/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner:	
Record Main Activity of the Day: Discussed the type of reporting and analytics capabilities needed for the NID and identified the resources needed to support capabilities and documented them for future use in NID project. For Nandini Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 11	Date: 10/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student: Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama. Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We started working on understanding the working of a model I began by reviewing the different types of models, such as regression classification, and clustering models For Nandini.C.U Signature of the Cohort owner	
Day- 12	Date: 11/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student: Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: I spent today delving deeper into the working of regression models We learned about the different types of regression models such as linear, logistic and polynomial regression For Nandini.C.U Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 13	Date: 13/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on classification models particularly the popular algorithm, Random Forest. We learned how Random forest works by combining the prediction of multiple decision trees to generate a final prediction. For Nandini.C.B Signature of the Cohort owner	
Day- 14	Date: 14/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: We spent today studying deep learning models particularly neural networks. We learned about the different types of neural networks For Nandini.C.B Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 15	Date: 15/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Uparna Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on unsupervised learning models, particularly clustering models. I learned about different types of clustering models such as K-means, Hierarchical clustering etc. Signature of the Cohort owner	
Day- 16	Date: 16/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Uparna Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we spent time on working on a particular project that involved building a model. I used the knowledge I had gained over past week to generate a basic working flow of our model with appropriate Algorithms. Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 17	Date: 17/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on creating a more complex flowcharts to model a dataflow. I started by identifying the inputs and outputs of the system For Nandini.C.B Signature of the Cohort owner	
Day- 18	Date: 18/03/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we studied about processes or decission points that would need to be included. I used a combination of rectangles diamonds and curves to map out the flow of data through the system For Nandini.C.B Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 19	Date: 20/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi. Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today. We reviewed my flowchart from yesterday and made some changes to improve clarity. I added lables and symbols to mak it eaiser to understand. For Nandakumar Signature of the Cohort owner	
Day- 20	Date: 21/03/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi. Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner:	
Record Main Activity of the Day: Today, we had a meeting in which we showed our flowchart to team members to get feedback. They suggested some change and according to the decisions the changes were made For Nandakumar Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 21	Date: 22/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: We, presented the final flowchart to my team members. They were very impressed with how clearly it was understanding. They also suggested to create a digital copy and. I created a digital copy of it. For Nandini C.C. Signature of the Cohort owner	
Day- 22	Date: 23/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we understood the importance of data gathering in our NID model, as it helps to train the system to recognize patterns of malicious activity. For Nandini C.C. Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 23	Date: 24/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on identifying the types of data that are necessary for data gathering to build an effective NID model. For Nandakumar Signature of the Cohort owner	
Day- 24	Date: 25/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we started collecting network traffic data using a network sniffer tool, we configured the tool to capture all traffic on the network. For Nandakumar Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 25	Date: 27/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on collecting network logs. We used combination of tools to collect log from different devices, including router switches ect. For Signature of the Cohort owner	
Day- 26	Date: 28/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we had a meeting on the yestrdays event where we found that to collect network logs we need to have a good setup of network device which is not possible at the moment. so we decide to collect pregenerated network logs. For Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 27	Date: 29/03/2023
Capstone Project Name: Network Intrusion Detection.	
Name of The Student: Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We focused on calleting the pre-generated network log in Internet to start our basic procedure to build a model. simultaneously we were also trying to called our own network log's. For Nandini C.U. Signature of the Cohort owner	
Day- 28	Date: 30/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student: Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: We spent the day reviewing the data collected so far from internet. For Nandini C.U. Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 29	Date: 31/03/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we continued reviewing and labelling the data. We also began exploring ways to visulize the data to make it easier. For Nandini C.G Signature of the Cohort owner	
Day- 30	Date: 01/04/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we had a meeting with team members and we finilized a set of data to train and test the model in future, and the data collected is further seperated and manipulated. For Nandini C.G Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 31	Date: 03/04/2023
Capstone Project Name: Network Intrusion Detection.	
Name of The Student Yogesh Balgi., Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we started working on the topic of data segregation in ML model. We reviewed the basic of machine learning and importance in building accurate models. For Nandini G Signature of the Cohort owner	
Day- 32	Date: 04/04/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: We continued our research on data segregation in ml model we delved deeper into the different methods used to segerate data such as sampling, random sampling and clustering For Nandini G Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 33	Date: 05/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi . Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today we focused on the impact of data segeration on the accuracy of the model. We read several research papers and case studies that demonstrated how segeration data can lead to better model accuracy	For Nandini.C.H Signature of the Cohort owner
Day- 34	Date: 06/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi . Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: We spent today researching the pratical implementation of data segregation in ML model. We looked into various programming languages and tools used for data segregation.	For Nandini.C.H Signature of the Cohort owner

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Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 35	Date: 07/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student: Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on the evaluation of the ML model after implementing data segregation. We looked into various matrix used to evaluate model accuracy such as precision, recall ect. For Nandi Signature of the Cohort owner	
Day- 36	Date: 08/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student: Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: On the final day of our research on data segregation in model we reviewed all the information we gathered throught the week and created a summary of our findings. For Nandi Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 37	Date: 10/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we began our day by exploration of data manipulation in the NID model. We started by reviewing the basic concept of data manipulation, including data cleaning, transformation and integration. For Nandini C.H Signature of the Cohort owner	
Day- 38	Date: 11/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: We continued our exploration of data manipulation in NID by learning about data preprocessing techniques such as feature selection and feature engineering For Nandini C.H Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 39	Date: 12/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on data visualization techniques that can be used to explore and analyze data in NID. We learned about different visualization such as histogram, heatmaps etc.	
	For Nandini
	Signature of the Cohort owner
Day- 40	Date: 13/04/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner:	
Record Main Activity of the Day: Today we spent our day learning algorithms that are commonly used in NIDS models.	
	For Nandini
	Signature of the Cohort owner

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 41	Date: 14/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we explored data manipulation techniques that can be used to improve the accuracy of model. We learned about techniques such as oversampling, undersampling and data augmentation. For Nandini C.U Signature of the Cohort owner	
Day- 42	Date: 15/04/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner:	
Record Main Activity of the Day: Finally, we reviewed some of the best practices for data manipulation in NID model, including the importance of data quality. For Nandini C.U Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi, Anish Budavi

Day- 43	Date: 17/04/2023
Capstone Project Name:	Network Intrusion Detection
Name of The Student	Yogesh Balgi, Anish Budavi
Name of the Cohort owner:	Mrs. Upama Kulkarni
Remarks of the Cohort owner:	good

Record Main Activity of the Day:
Today, we began our journey of creating a NID model. We started by researching the different types of NID and their pros and cons

For Nandini

Signature of the Cohort owner

Day- 44	Date: 18/04/2023
Capstone Project Name:	Network Intrusion Detection.
Name of the Student	Yogesh Balgi, Anish Budavi
Name of the Cohort owner:	Mrs. Upama Kulkarni
Remarks of the Cohort owner:	

Record Main Activity of the Day:
We continued our research on NID and focused of different types of sensors used to detect network traffic such as Host based and network based and their capabilities.

For Nandini

Signature of the Cohort owner

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 45	Date: 19/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on data collected and processed for our model. We researched tools and techniques used for data collection and processing. For Nandini C.P. Signature of the Cohort owner	
Day- 46	Date: 20/04/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner:	
Record Main Activity of the Day: Today we spent learning about machine learning algorithm that can be used in NID. For Nandini C.P. Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 47	Date: 21/04/2023
Capstone Project Name:	Network Intrusion Detection.
Name of The Student	Yogesh Balgi, Anish Budavi
Name of the Cohort owner:	Mrs. Upama Kulkarni
Remarks of the Cohort owner:	good

Record Main Activity of the Day:
Today, we focused on creating our dataset and focused on data cleaning and preparation. We learned about techniques such as data normilization, handling missing data.

For Nandini

Signature of the Cohort owner

Day- 48	Date: 22/04/2023
Capstone Project Name:	Network Intrusion Detection.
Name of the Student	Yogesh Balgi, Anish Budavi
Name of the Cohort owner:	Mrs. Upama Kulkarni
Remarks of the Cohort owner:	

Record Main Activity of the Day:
We continued working on creating our dataset. We learned about the different that can be extracted from network traffic such as source and destination IP address, port number and protocol.

For Nandini

Signature of the Cohort owner

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 49	Date: 24/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We started building our NID model by selecting an appropriate machine learning algarithm and tranning the model For Nandini Signature of the Cohort owner	
Day- 50	Date: 25/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner:	
Record Main Activity of the Day: We continued working on building my NID model by evaluating the performance of the model using different metrics such as presision, recall et. For Nandini Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 51	Date: 26/04/2023
Capstone Project Name: Network Intrusion Detection.	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on tuning our NID model by evaluating the performance For Signature of the Cohort owner	
Day- 52	Date: 27/04/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner:	
Record Main Activity of the Day: We continued working on fine tunning our NID model and evaluted its performance on a test set. For Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 53	Date: 28/04/2023
Capstone Project Name: Network Intrusion Detection.	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We focused on deploying my NID model in a production environment. For Signature of the Cohort owner	
Day- 54	Date: 29/04/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi.	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: For my final day, I reviewed the entire process of creating a NID model and reflected on the challenges and successes of the project. For Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 55	Date: 01/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we began with creating a UI/UX design for the the NID model using Figma. We began sketching rough wireframes on paper to visualize and flow of the interface. For Nandkumar Signature of the Cohort owner	
Day- 56	Date: 02/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Continuing from where we left off, created a new project and setup the necessary artboards for different screens of the NID model For Nandkumar Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 57	Date: 03/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: We delved deeper into the UI design by focusing on specific features and functionalities of NID model For Nandini C.U Signature of the Cohort owner	
Day- 58	Date: 04/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: With the core UI design completed , we shifted our focus to the UX aspect of the project For Nandini C.U Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 59	Date: 05/05/2023
Capstone Project Name: Network Intrusion Detection.	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Taking the feedback and insights from the usability tests we made significant updates to the UI design. For Signature of the Cohort owner	
Day- 60	Date: 06/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi . Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner:	
Record Main Activity of the Day: On the final day of the designing , I reviewed the entire UI/UX design in Figma and performance a thorough quality check. For Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 61	Date: 08/05/2023
Capstone Project Name:	Network Intrusion Detection
Name of The Student	Yogesh Balgi , Anish Budavi
Name of the Cohort owner:	Mrs. Upama Kulkarni
Remarks of the Cohort owner:	good
Record Main Activity of the Day: Today, we started working on creating a user interface using HTML and CSS. We began by planning the structure and layout of the interface.	For Signature of the Cohort owner

Day- 62	Date: 09/05/2023
Capstone Project Name:	Network Intrusion Detection
Name of the Student	Yogesh Balgi , Anish Budavi
Name of the Cohort owner:	Mrs Upama Kulkarni
Remarks of the Cohort owner:	
Record Main Activity of the Day: continuing from where we left off. I began styling the interface using CSS. I created a seperate CSS file and linked it to HTML file	For Signature of the Cohort owner

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 63	Date: 10/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we focused on designing the navigation menue. Using HTML list, we created a simple horizonal menue and applied CSS styles to customize its appearance and added hover effects. For Signature of the Cohort owner	
Day- 64	Date: 11/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Continuing with the interface design. We turned our attention to the main content and started designing our Home page For Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 65	Date: 12/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We worked on our Manual scan page where we created a form where user can add network details manually and connected this form to our ML model For Nandini.C Signature of the Cohort owner	
Day- 66	Date: 13/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Continuing working on manual scan page linked HTML page and ML model using django framework so the data collected from HTML page can be sent to ML model. For Nandini.C Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi, Anish Budavi

Day- 67	Date: 15/05/2023
Capstone Project Name: Network Intrusion Detection.	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We moved to our next section which is automatic scan, for which we created a file feild where user can upload list document containing network details. For Signature of the Cohort owner	
Day- 68	Date: 16/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We continued by linking the ML model and the automatic scan page Also we added the restriction of only uploading ".csv" file. For Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 69	Date: 17/05/2023
Capstone Project Name: Network Intrusion detection.	
Name of The Student Yogesh Balgi ,Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Continuing, working on automatic scan page we delved deeper into designing using css and creating download buttons of output and downloading chart. For Signature of the Cohort owner	
Day- 70	Date: 18/05/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: On finishing of automatic scan page we created a About page where we added information about the model and our team. For Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 71	Date: 19/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We conducted a through cross device and cross-browser testing of the interface. We tested on various browsers, including Chrome, Brave, Edge and Safari. For Nandini Signature of the Cohort owner	
Day- 72	Date: 20/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: On the final day of the build, I reviewed the entire interface design, ensuring that all requirements are met and designed aligned with team members expectations. For Nandini Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 73	Date: 22/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, after concluding the UI/UX design and implementation phase we encountered an error in the UI design where in the result was not displayed properly. for Nandini C.U. Signature of the Cohort owner	
Day- 74	Date: 23/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budagvi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Finally, After many error solving we were able to solve the problem and we finally conclude this phase. for Nandini C.U. Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 75	Date: 24/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today. We began our journey of performing active testing on a NID model. The purpose of this testing is to evaluate the effectiveness of the NID in detecting and preventing various types of network attack for Nandini.C.S Signature of the Cohort owner	
Day- 76	Date: 25/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we initied a series of simulated attacks to assess the system detection capabilites for Nandini.C.S Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 77	Date: 26/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: During todays testing , we ~~avoid~~ aimed to evaluate the NID ability to detect and mitigate intrusion attempts. good For Nandini Signature of the Cohort owner	
Day- 78.	Date: 27/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today we expanded our testing scope to include invasion techniques. For Nandini Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 79	Date: 29/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: In todays ,we concentrated on assessing the NID's reliience to false positive and False negativitive For Signature of the Cohort owner	
Day- 80	Date: 30/05/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: During today's testing , we introduced complex attacks vectors to challenge the NID's capabilities further For Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 81	Date: 31/05/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today marks the final day of active testing on the NID model we conducted a comprehensive analysis of the testing result consolidating all the data collected over past week. Signature of the Cohort owner	
Day- 82	Date: 01/06/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Badavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: We began documenting the errors in our Network Intrusion Detection model. During the inital investigation. We reviewed the log from past NID and identified several recurring error. Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 83	Date: 02/06/2023
Capstone Project Name: Network Intrusion Detection.	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: continuing my analysis of the NID model . today we focused on examining the architecture and configuration settings. For Signature of the Cohort owner	
Day- 84	Date: 03/06/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, we conducted a in-depth examination of NID model traning data For Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 85	Date: 05/06/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: In the final day of documenting errors in the NID model we focused on analyzing the system response to sophisticated evasion techniques employed by attackers for Nandakumar Signature of the Cohort owner	
Day- 86	Date: 06/06/2023
Capstone Project Name: Network Intrusion Detection.	
Name of the Student Yogesh Balgi, Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: We reviewed the documented errors in our NID model and began brainstorming potential solution. For Nandakumar Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 87	Date: 07/06/2023
Capstone Project Name: Network Intrusion Detection	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Continuing from the previous day, we focused on finding solution for the errors in the NID model. The seconde error identified was lack of diversity in traning data. For Nandini C.P Signature of the Cohort owner	
Day- 88	Date: 08/06/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We shifted our attention for finding solution for the NID model's susptibility to evasion techniques. For Nandini C.P Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 89	Date: 09/06/2023
Capstone Project Name: Network Intrusion Detection.	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: continuing our explanation of solution for the errors in NID model. We focused on enhancing the accuracy the models performance against sophisticated attacks For Nandini Signature of the Cohort owner	
Day- 90	Date: 10/06/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today, We focused on further enhancing the accuracy and effectiveness of the NID model by leveraging threat intelligence For Nandini Signature of the Cohort owner	

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 91	Date: 12/06/2023
Capstone Project Name:	Network Intrusion Detection
Name of The Student	Yogesh Balgi , Anish Budavi
Name of the Cohort owner:	Mrs. Upama Kulkarni
Remarks of the Cohort owner:	good
Record Main Activity of the Day:	Continuing from the previous day, We explored solution to address the error of the NID model's limited ability to adapt to emerging threats.
	For Signature of the Cohort owner
Day- 92	Date: 13/06/2023
Capstone Project Name:	Network Intrusion Detection
Name of the Student	Yogesh Balgi, Anish Budavi
Name of the Cohort owner:	Mrs. Upama Kulkarni
Remarks of the Cohort owner:	good
Record Main Activity of the Day:	Today, we focused on proposing solution to improve the NID model's scalability and efficiency
	For Signature of the Cohort owner

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Capstone Project Name: Network Intrusion Detection

Capstone Project Members: Yogesh Balgi,Anish Budavi

Day- 93	Date: 14/06/2023
Capstone Project Name: Network Intrusion Detection.	
Name of The Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner: good	
Record Main Activity of the Day: Today , We finilized the solution and made our last changes accordingly and made the capstone project ready for deployment. For Nandini C.U Signature of the Cohort owner	
Day- 94	Date: 15/06/2023
Capstone Project Name: Network Intrusion Detection	
Name of the Student Yogesh Balgi , Anish Budavi	
Name of the Cohort owner: Mrs. Upama Kulkarni	
Remarks of the Cohort owner:	
Record Main Activity of the Day: The ready product was ~~tested~~ implemented in real-time and the performance was effeient and was ready to implement in other sectors. For Nandini C.U Signature of the Cohort owner	