

PROJECT TITLE:

AI-Driven Dynamic Fuzz Testing
for IoT Security.

LOG BOOK

(18CSP107L)

MINOR PROJECT (2024-2025)

29th July (offline meet)

Purpose: (1) Title discussion

(2) Procedure for review O

(3) Discussion of project idea .

Shanya

Student 1

(Shanya)

Charvi

Student 2

(Charvi)

Shounak

Student 3

(Shounak)

29/7/24

Dr. Nagendra Prabhu S.
AP/
(CINTEL guide)
supervisor

29/7/24

Dr. Balaji Srikanth P.
AP/
(NWC guide)
supervisor

1st August

(online meet)

Purpose : (1) PPT review

(2) Discussion on Literature Reviews

(3) Workflow of Project discussion

Feedback : (1) Make 2 PPTs

(2) Complete literature reviews

on - diff. ML algos

- diff. attacks

- previous works

- mitigation actions

Shashank

Student 1

Chaitanya

Student 2

Aad

Student 3

Lalit Kumar

Malek 18/08/2024

Dr. Nagendra Prabhu S.

(^{ATP} (INTER guide)
supervisor

Dr. Balaji Srikanth P.

(^{ATP} (VVC guide)
supervisor

2nd August (offline meet)

- Purpose:
- (1) Review PPT
 - (2) Discussion for further procedure of IoT project.
 - (3) Review O rules [required docs].

- Feedback:
- (1) Ready for Review O
 - (2) Start Implementation

Draft

Student 1

Chaitanya

Student 2

Aay

Student 3

28/08/2024

Dr. Balaji Srikaanth P.

(NWC guide)
Supervisor

3rd August (Review 0)

Purpose: minor project review 0 with the panel 06

Batch - 09 } NWC
Panel - 06 }

Outcome: Project title accepted

Feedback: (1) streamlining the idea
(2) focus on simulations
(3) choose a domain of IoT device data for dataset.

Shashank

Student 1

Charu Jain

Student 2

Balaji

Student 3

Batch 3/8/2024

Dr. Balaji Srikaanth P.

(NWC guide)

Supervisor

19th August (offline meet)

Purpose: (1) Review 1 discussion for requirements
(2) Title, abstract, lit. survey & Prob. St.

Feedback: (1) Lit. Survey should be genuine.
(2) Project result (working) has to be shown.

Shell

Student 1

Charmjaria

Student 2

B. A. S

Student 3

Balaji 19/8/2024

Dr. Balaji Srikanth P.

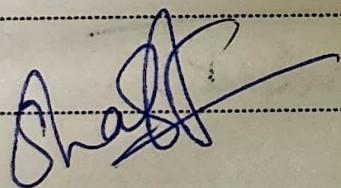
(CNWC guide)

Supervisor

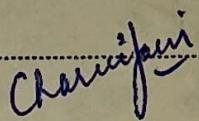
23rd August (offline meet)

Purpose: (1) Progress of implementation
(2) Review 1 discussion
(3) Paper discussion (conference)
(4) Methods for graph generation

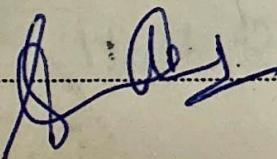
Feedback: (1) Make Theory paper instead of implementation paper.
(2) Have Two approaches for each model for paper.



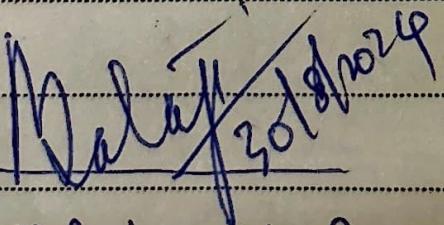
Student 1


charupriya

Student 2



Student 3


Balaji Srikanth P.
30/07/2024

Dr. Balaji Srikanth P.
(Cnwe Supervisor)

29th August (online meet)

Purpose: (1) Suggestions & Feedback on Paper

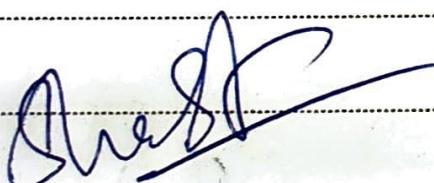
(2) Review of PPT for first review

(3) Conference selection

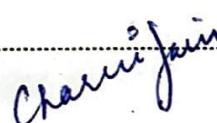
Feedback: (1) Abstract add 230 words

(2) Add flowchart & Pseudocode/Algorithm

(3) Add proper citations



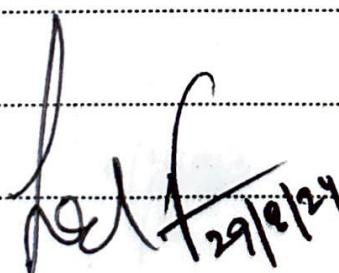
Student 1


charu jain

Student 2



Student 3


29/08/24

Dr. Nagendra Prabhu S.
(CINTEL Supervisor)

30th August (offline meet)

Purpose: (1) Review 1 Documents feedback (verification)
(2) Research Paper Discussion
(3) Progress of implementations
(4) Conference Details.

Feedback: (1) Good progress
(2) Submit Paper (3%). plagiarism in report
in conference.
(3) Update Lit. Survey in PPT.
(4) Max 1 and half' points in PPT (bullet pts.)

Student 1

Chaitanya

Student 2

S. A. S

Student 3

30/8/24

Dr. Nagendra Prabhu S.
(CINTEL supervisor)

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30/8/24

Dr. Balaji Srikaanth P.
(NWE supervisor)

31st August (Review 1)

Purpose: Minor Project 1st review with the panel OG.

Panel: OG

Outcome: good, proceed further.

Feedback:

- (1) Data Collection has to be done.
(make it better)
- (2) Improve model performance.

Sheff

Student 1

Channijain

Student 2

S A J

Student 3

Balaji
31/08/2020

Dr. Balaji Srikaanth P.
(NWC Supervisor)

9th September (Coffline meet)

Purpose: (1) Review 2 discussion
(2) Progress check for model performance accuracy.

Feedback: (1) AI based detection improved by 25%.
(2) Start mitigation part of the project.

Student 1

Student 2

Charifais
Student 3

Dr. Balaji Srikaanth P.
(NWC Supervisor)

Dr. Nagendra Prathee S.
(CINTER Supervisor)

16th September (offline meet)

Purpose : (1) Progress of implementation
(2) Review 2 documents
(3) Progress of Research Paper

Feedback : (1) Make Review 2 PPT
(2) ~~Add~~ Use more references in Research Paper
(3) Continue with integration of mitigation.

Shabbir

Student 1

A. A.S

Student 2

Chaitanya

Student 3

Balaji 16/09/2024

Dr. Balaji Srilcaanth P.
(NWC Supervisor)

Lalith 16/09

Dr. Nagendra Arbab S.
(CINTEL Supervisor)

23rd September (offline meet)

Purpose:

- (1) Review 2 PPT
- (2) Feedback on Research Paper
- (3) Implementation Progress.

Feedback:

- (1) Complete all documents required for Review 2.

- (2) Good Implementation progress.
- (3) Research Paper Finish soon.

Draft

Student 1

Clarification

Student 2

Feedback

Student 3

Nalini Srilekha

Dr. Balaji Srikanth P.
(NWC Supervisor)

Jeffrey

Dr. Nagendra Prabhu S.
(CINTEL Supervisor)

28th September (Review 2)

Purpose: Minor Project 2nd Review with Panel 06,
batch - NW000156

Outcome - Successful, can proceed

Feedback - Good, go ahead with mitigation
practice in project

Shaff

Student 1

SDS

Student 2

SDS

~~M. Balaji Srikaanth P.
30/08/2024~~

Dr. Balaji Srikaanth P.
(NWC Supervisor)

9th October (Offline meet)

Purpose: (1) Review 3 discussions

(2) Progress check on integration of dynamic packet filtering.

Feedback: (1) Improve performance of mitigation
(4) Finish implementation soon.

Student 1

Student 2

Student 3

Dr. Balaji Srikaarth P.
(CNWc Supervisor)

Dr. Nagendra Prabhu
(INTEL Supervisor)

16th October (Offline meet)

Purpose: (1) Implementation progress
(2) Review 3 documents
(3) Research paper progress

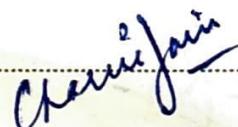
Feedback: (1) Make review 3 PPT
(2) Use AI tools for enhancing paper.
(3) Complete MS Planner.
(4) Complete Agile Documents.



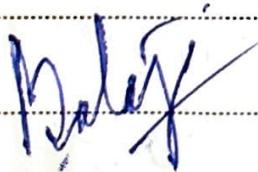
Student 1



Student 2



Student 3



Dr. Balaji Srikanth P.
(NWC Supervisor)



Dr. Nagesha Prabhu S.
(CINTEE Supervisor)

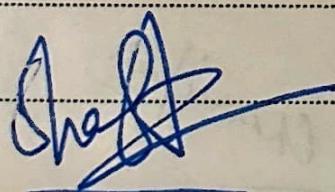
24th October (Coffline meet)

Purpose: (1) Review 3 PPT

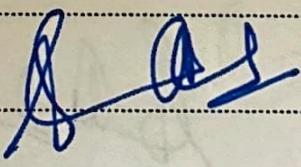
- (2) Feedback on Research Paper
- (3) Implementation Progress

Feedback: (1) Complete all documents required
for final review.

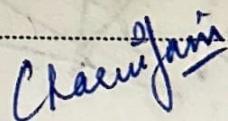
- (2) Implementation completed.
- (3) Finished Research Paper.



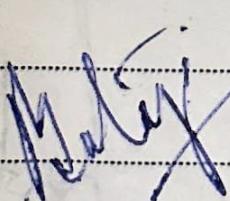
Student 1



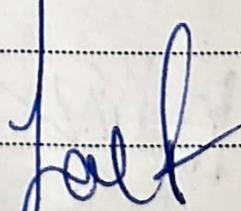
Student 2


Chairman

Student 3



Dr. Balaji Srikaanth P.
(NWC Supervisor)



Dr. Nagendra Prabhu S.
(CINTEL Supervisor)

26th October (Review 3.) (Final)

Purpose: Final Minor Project Review with
Panel-06 & Batch- NW000156.

Outcome: 1. Completed the minor project
2. Paper accepted in the Conference

Feedback: yet to be presented

Good Work. Submit the hard
copy of the project report soon.

Shashikant

Student 1

Aastha

Student 2

Chaitanya

Student 3

Melvin
26/10/2014

Jyoti

Dr. Balaji Srikaanth P.
(CNWC supervisor)

Dr. Nagendra Prabhu S.
(CINTEL supervisor)