DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

Academic Year: 2024 - 2025

Class: _SE - B_

Sem: _IV_

Project Title: _Bone Injury Detection using Machine Learning_

Team Member 1: (Team Leader)

Name: _Harsh Mandar Raulgaonkar_

College ID: _23106082_   Email: _23106082@apsit.edu.in_

Mobile No: _7045251676_

Team Member 2:

Name: _Roshan Rajdhari Pal_

College ID: _23106111_   Email: _23106111@apsit.edu.in_

Mobile No: _8355948204_

Team Member 3:

Name: _Sanidhya Pawankumar Pandey_

College ID: _23106005_   Email: _23106005@apsit.edu.in_

Mobile No: _9820789513_

Team Member 4:

Name: _Soham Shelatkar_

College ID: _23106023_   Email: _23106023@apsit.edu.in_

Mobile No: _9930538555_

Prof. _Vijesh Mundokalam_   Prof. _Taruna Sharma_   Dr. _Jaya Gupta_

Project Guide   Mini- Project Coordinator   Head of Department

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
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Academic Year: 2024 - 2025

Class: ___S·E___   Sem: ___IV___

Date: From __13|01|25__ to __27|01|25__

Progress Planned	Progress Achieved
understand bone injury diagnosis challenges Explore ML and CNN concepts	Developed understanding of ML in healthcare Finaliad project aim

Guides Review: _____

_____

Signature

Name and Signature of Team Member 1: Harsh Raulgaonkar

Name and Signature of Team Member 2: Roshan Pal   Roshan

Name and Signature of Team Member 3: sanidhya pandey   Sanidhya

Name and Signature of Team Member 4: soham shelatkar

Name of Project guide: Vijesh Mundokalam

Signature of guide with Date: _____

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
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Academic Year: 2024 - 2025

Sem: ___IV___

Class: ___S.E___

Date: From ___27/01/25___ to ___31/01/25___

Progress Planned	Progress Achieved
Research history of bone imaging and diagnosis	studied evolution from manual x-ray interpretation AI-driven methods

Guides Review: _____

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Signature

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Name and Signature of Team Member 4: sonam shelatkar

Name of Project guide: Vijesh Mundokalam

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A. P. SHAH INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

Academic Year: 2024 - 2025

Class: _____S.E._____   Sem: _____IV_____

Date: From _31/01/25_ to _05/02/25_

Progress Planned	Progress Achieved
Review recent reasearch papers on AI in fracture detection.	summarized 5 key papers, model types, challenges like data imbalance.

Guides Review: _____

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

Academic Year: 2024 - 2025

Class: _____SE_____

Date: From _05/02/25_ to _12/02/25_

Sem: _____IV_____

Progress Planned	Progress Achieved
Draft problem statement and AI-based solutions.	Identified diagnosis errors, delays, expert shortages; proposed CNN solution.

Guides Review: _____

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Academic Year: 2024 - 2025

Class: _____ S.E _____

Sem: _____ IV _____

Date: From __12|02|25__ to __19|02|25__

Progress Planned	Progress Achieved
Finalize hardware requirements for model trainning.	specified development setup (CPU, GPU, RAM, SSD, intenet).

Guides Review: _____

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Name and Signature of Team Member 4: soham shelatkar Som

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(ARTIFICIAL INTELLIGENCE & MACHINE LEARNING)

Academic Year: 2024 - 2025

Class: ___S.E___   Sem: ___IV___

Date: From ___19/02/25___ to ___26/02/25___

Progress Planned	Progress Achieved
Selet software tools and ML frameworks	choose python, Tensor Flow / keras, opencv , Google colab.

Guides Review: _____

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Academic Year: 2024 - 2025

Class: _S.E_ Sem: _IV_

Date: From _26/02/25_ to _05/03/25_

Progress Planned	Progress Achieved
Design CNN-based architecture and system flow.	Created block diagram and explain CNN layers for classification.

Guides Review: _____

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Name and Signature of Team Member 4: Soham shelatkar

Name of Project guide: _Vijesh Mundokalam_

Signature of guide with Date: _____

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
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Academic Year: 2024 - 2025

Class: _____S.F_____   Sem: _____IV_____

Date: From 05│03│25 to 12│03│25

Progress Planned	Progress Achieved
collect dataset and perform preprocessing	Gathered datasets, applied contrast enhancement, augmentation.

Guides Review: _____

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Signature

Name and Signature of Team Member 1: Harsh Raulgaonkar *HR*

Name and Signature of Team Member 2: Roshan Pal   Roshan

Name and Signature of Team Member 3: Sanidhya pandey *Sandh*

Name and Signature of Team Member 4: soham shelatkar *Sum*

Name of Project guide: Vijesh Mundokalam

Signature of guide with Date: _____

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Academic Year: 2024 - 2025

Class: _____ S.E. _____   Sem: _____ IV _____

Date: From 12/03/25 to 02/04/25

Progress Planned	Progress Achieved
Train and validate model.	Achieved ~80-92% accuracy; visualized performance graphs.

Guides Review: _____

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Academic Year: 2024 - 2025

Class: ___S·E___   Sem: ___IV___

Date: From ___02|04|25___ to ___08|04|25___

Progress Planned	Progress Achieved
Develop GUI For user interaction.	Mode GUI for uploading x-rays and showing fracture detection.

Guides Review: _____

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Name and Signature of Team Member 3: sanidhya pandey   Sanid

Name and Signature of Team Member 4: soham snelatkar   Som

Name of Project guide: vijesh Mundokalam

Signature of guide with Date: _____