

Research Project Periodic Log Entry Form

Project ID: 25-26J-396

Student ID: IT22229434

Name : Denuwan P.M.K

Individual : AI Based Garage Recommendation & Repair Time
Component Estimation with Chatbot in Sri Lanka

Summary of RP work carried out during the Reporting Period

Date	RP work
02.12.2025	Finalized the dataset within 875 rows.
03-05.12.2025	Redefined the dataset by adding column "Parts-Required"
08.12.2025	Clean the dataset.
12.12.2025	Apply one-hot-encoding (Categorical convert to numerical)
14.12.2025	Start to Trained dataset using Random Forest Regressor Algorithm, Scikit-Learn under supervised learning through Jupyter-Notebook.
15.12.2025	Get & Visualize the results.

Supervisor Comments:

Student Progressing well in research Project: Yes / No

If No:

Project work to be carried out before next evaluation period.

Code Base checked: Yes / No

Signature:

Date :

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Summary of RP work carried out during the Reporting Period

Date	RP work
16.12.2025	Instead of the just trained dataset by split 80% & 20%, apply K-Fold validation to improve accuracy.
17.12.2025	Generate Diagrams from trained model & finalized model training.
18.12.2025	Start to develop chatbot using Gemini Api & python.
19.12.2025	Set critical conditions (not highly rely on the AI) to chatbot when generating outputs.
20.12.2025	Finalized the Chatbot.
22.12.2025 31.12.2025	Start the mobile application development.

Supervisor Comments: Student progressing well in research project: Yes / No

If NO:

Project work to be carried out before next evolution period.

Code base checked: Yes / No

Signature:

Date: