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Respondent

7 Nishant Garg

14:51

Time to complete

1. Date of this semester progress report submission \*

05/15/2024

2. Name of project exactly as it was listed in your award letter \*

Automated Waste Classification via Computer Vision

3. Date of original award letter \*

12/04/2023

4. Date of expiration listed on award letter (or on scope change approval if more recent) \*

12/03/2025

5. How much was your award (i.e., original award plus any approved budget increases)? \*

\$96600

6. How much of your award has been spent to date (in dollars)? \*

\$74

7. Date of forecasted project completion \*

12/15/2025

8. Have you submitted one or more semester progress reports previously? \*

YES

NO

9. Describe, in detail, what has been completed on the project since the last semester progress report (or since the project commenced if you have not yet submitted a semester progress report)? \*

We have conducted a thorough literature review, analyzing state-of-the-art methods for waste detection and classification. Following this, we collected visual data and meticulously labeled it to create a structured dataset. This dataset was used to train initial models with multiple neural network architectures for detecting and classifying waste materials.

10. Describe, in detail, the project's challenges/obstacles since your last semester progress report (or since the project commenced if you have not yet submitted a semester progress report)? \*

Since the commencement of the project, we have completed the literature review, focusing on state-of-the-art methods for detecting and classifying waste materials. Additionally, we have trained multiple models and have not encountered any issues thus far.

11. Describe, in detail, the project's successes since your last semester progress report (or since the project commenced if you have not yet submitted a semester progress report)? \*

A key success has been the completion of the literature review, in which we focused on state-of-the-art methods for detecting and classifying waste materials. Another significant milestone has been the training of multiple models, all of which have successfully detected and classified waste with promising accuracy.

12. Did your project have any changes to its team that SSC should know about (e.g., project lead, faculty/staff advisor, departmental financial contact)? \*

**NOTE: If yes, please complete the SSC Project Contact Information Change Form located at this link: <https://forms.office.com/r/uBjx9nmNpG>**

YES

NO

13. Complete and upload the semester financial documentation for your project. You should reflect all expenditures since your last semester project report. We strongly suggest that you also upload supporting financial documentation from Banner for your award CFOP. NOTE: When your project is completed and/or expired (whichever comes first), any remaining project funds will be transferred back to the SSC.

<https://studentengagement.illinois.edu/sites/default/files/2024-09/SSC-Budget-Timeline-SEMESTER-PROGRESS-REPORT-template.xlsx>

\*

 [SSC-Budget-Timeline-SEMESTER-PROGRESS-REPORT- Nishant Garg.xlsx](#)

14. (OPTIONAL FOR SEMESTER REPORT) Upload project marketing and/or media not previously submitted in semester progress reports.

**NOTE: Project marketing and/or media must include SSC's logo and/or a statement of which fee(s) funded the project.**