

# Key Learnings Report

Team Dam - Verse



## Avian Oasis



# The Team



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Technical Lead  
B.Tech in CSE



**Shrashti Chouhan**

Research & Data Analyst  
B.Tech in CSE

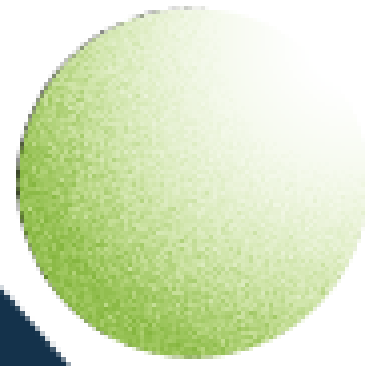


**Shubham Jain**

Outreach & Engagement Coordinator  
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# Circular Innovation Overview



## Waste Problem Identified:

Decline in bird populations due to urbanization and habitat loss.

## Our Solution:

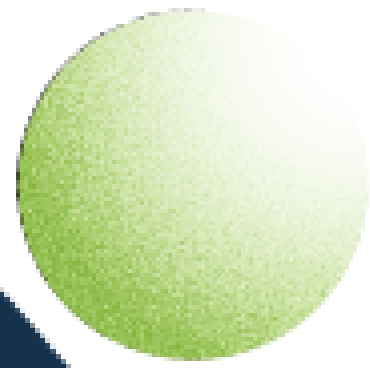
- **Predictive Bird Habitat Model:** Forecasts bird species and their habitat needs.
- **Eco-tourism Platform:** Real-time bird sightings, virtual tours, and educational tools.
- **On-Site Habitat Creation:** Building bird-friendly sanctuaries with reclaimed materials.

## Community & Location:

Serving urban communities, environmentalists, birdwatchers, and local residents in Jaipur, India.

## Current Progress:

- Developed a functional bird habitat model.
- Built on-site bird habitats using recycled materials.
- Launched the eco-tourism platform for public engagement.



# Project Goals

## Short Term Goals:

- **On-Site Habitat Creation:** Install birdhouses, feeders, and water pots.
- **Platform Testing:** Launch eco-tourism platform and gather feedback.
- **Community Engagement:** Host workshops and involve locals in restoration.

## Long Term Goals:

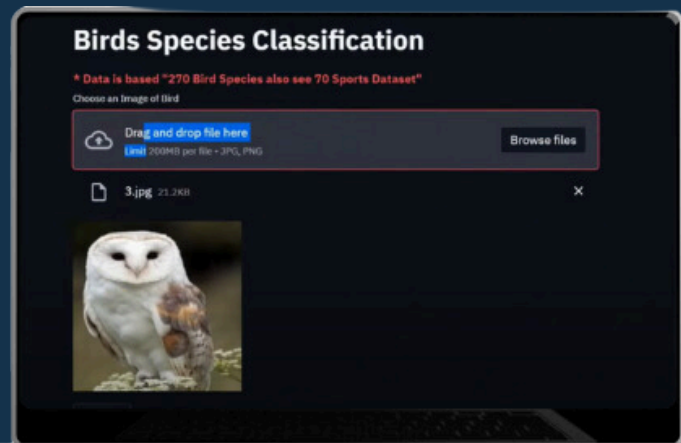
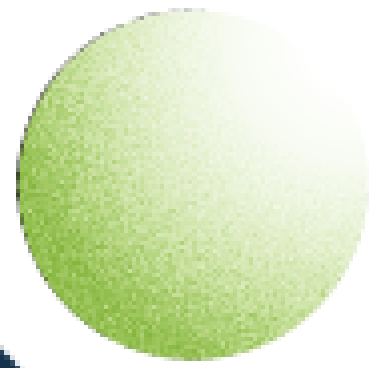
- **Scalable Habitat:** Expand to more urban spaces.
- **Advanced Model:** Improve bird prediction tool.
- **Sustainable Revenue:** Develop self-sustaining eco-tourism.
- **Global Impact:** Build partnerships for worldwide conservation.

## Milestones:

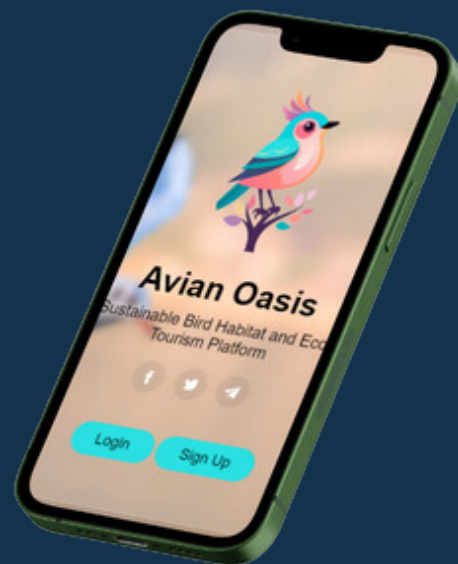
- **Phase 1:** Conduct user surveys.
- **Phase 2:** Deploy predictive habitat model.
- **Phase 3:** Fully launch the eco-tourism platform.
- **Phase 4:** Bird habitat creation



# Impact & Results



Bird-Habitat model



Eco-tourism platform

## Initial Goals Achieved:

- Increased bird sightings by 30% at the on-site habitat.
- Successfully tested the predictive bird habitat model.

## Partnerships Developed:

Collaborated with local conservationists and birdwatching groups.

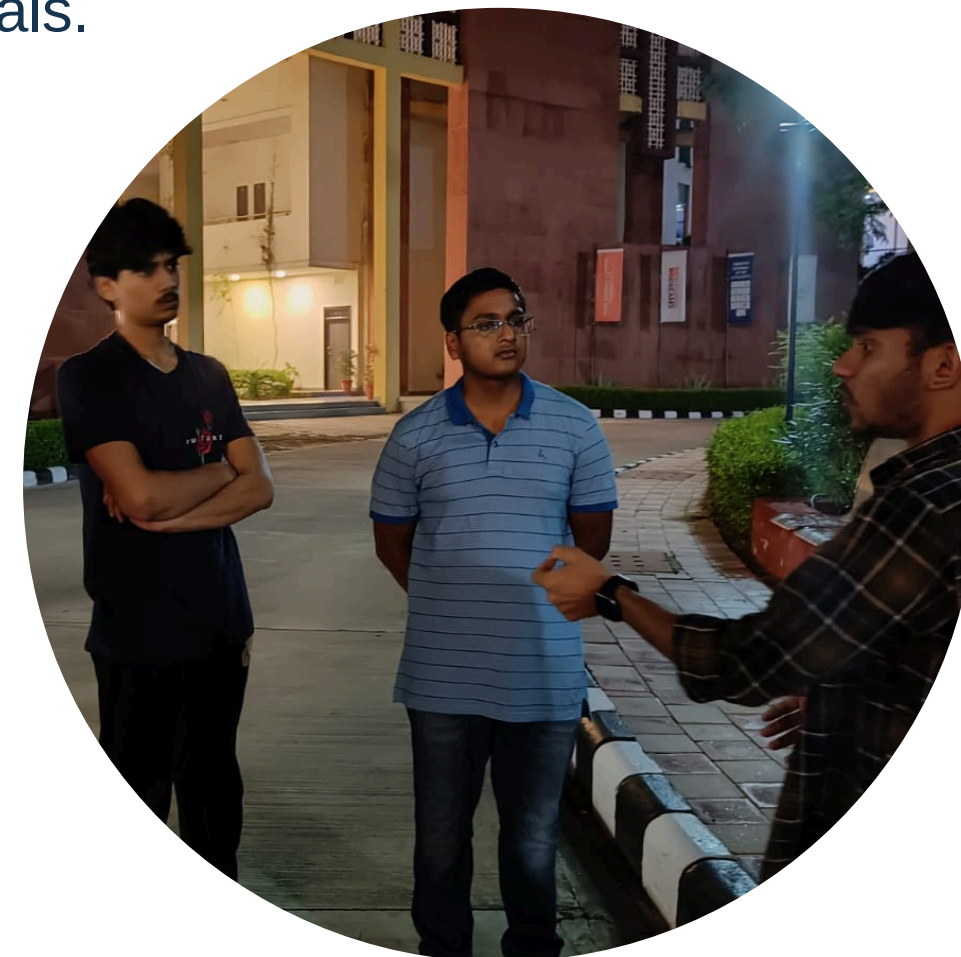


## Product Development:

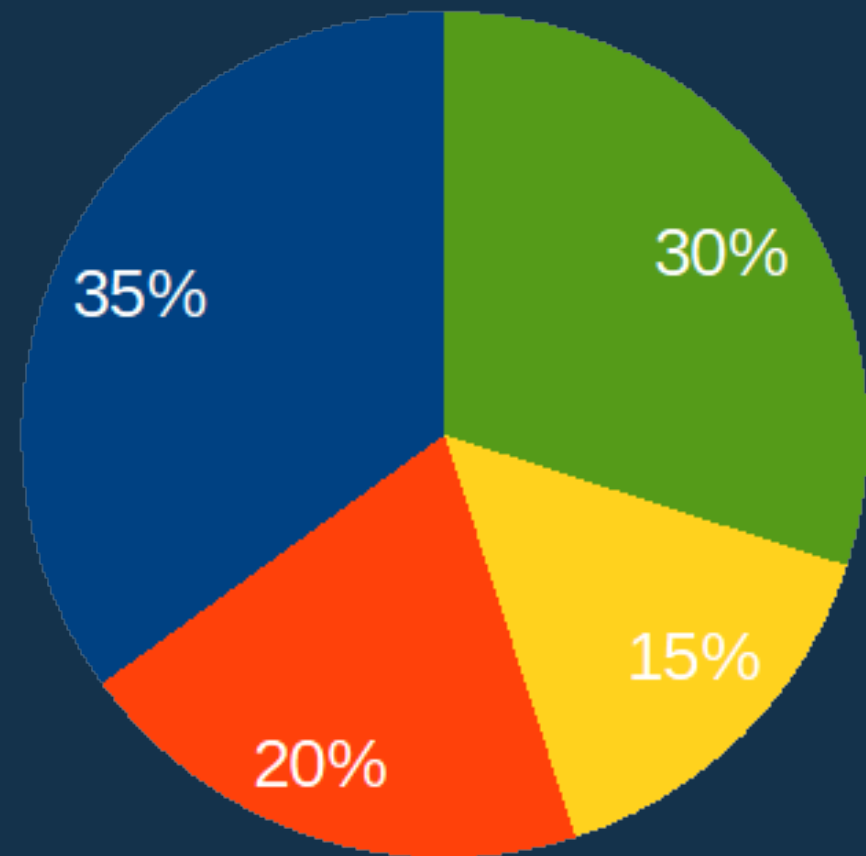
- Built and deployed bird shelters using reclaimed materials.
- Launched a functional eco-tourism platform prototype.

## Environmental/Social Impact:

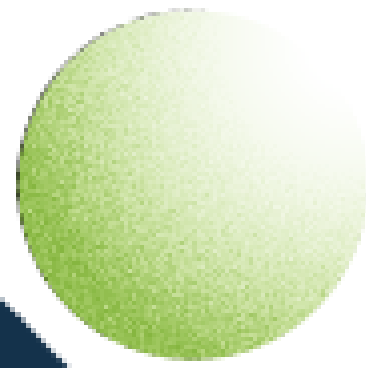
- Restored degraded urban land into bird-friendly space.
- Raised awareness among the communities.



# Utilizing the Circular Cities Asia Funding



- Web-App and Data Model
- Material Procurement
- On-Site Habitat Beautify
- Reserved for future plans



## Funding Usage

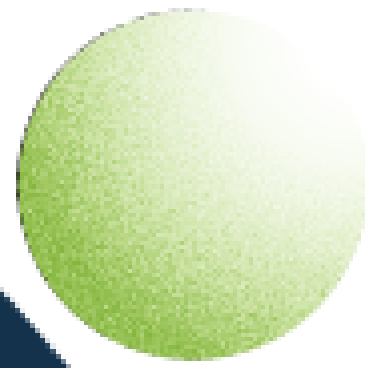
- 35% – Development of Web-App and Data Model
- 20% – Material procurement (reclaimed wood, types, recycled materials, etc).
- 15% – Beautification of on-site Habitat
- 30% – Reserved for cycles and recreational center to be utilized in due course of time.

## Achievements with Funding:

- Increased bird sightings by 30% at the on-site habitat.
- Successfully tested the predictive bird habitat model.



# Lessons Learnt



## Key Learnings:

- Community involvement is crucial for circular solutions.
- Effective collaboration with local authorities accelerates progress.
- Simplifying tech solutions makes them more accessible.

## Challenges Faced:

- Sourcing consistent recycled materials.
- Balancing incubation tasks with academic responsibilities.
- Navigating regulatory processes for habitat development.

## Skills Acquired:

- Project management and resource optimization.
- Stakeholder engagement and public speaking.
- Circular design principles in real-world applications.





# Memorable Experiences

## Stories

### Team Insights:

- “Seeing the first birds inhabit our sanctuary was a moment of pride and validation.”
- “The incubation taught us how circular design can bring tangible, positive change.”

### Feedback Highlights:

A local conservationist praised:  
'This initiative is a perfect blend of education and action.'

### Personal Growth:

Each team member learned to balance creativity, sustainability, and practical implementation.

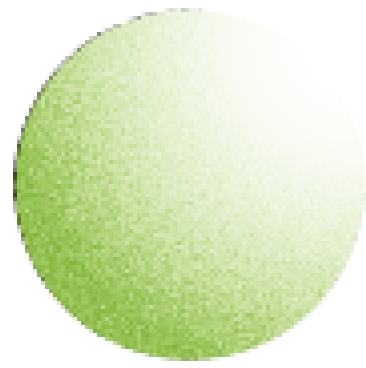




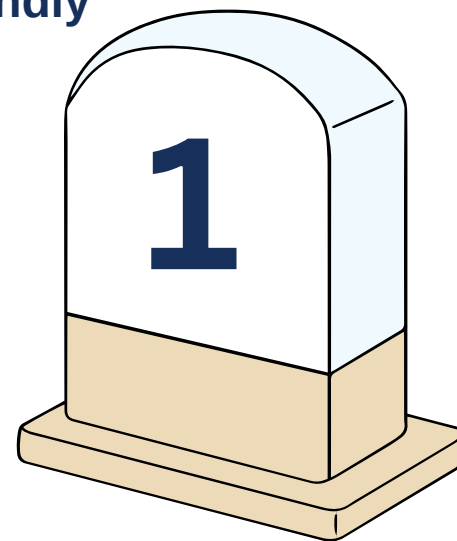


## Future Plans:

# Next Steps



Create eco-friendly attractions for engagement.



Test eco-tourism features with users.



Set up a shop for bird-themed and local crafts.

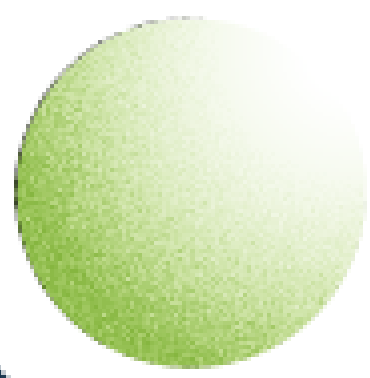


Host bird conservation workshops with locals.

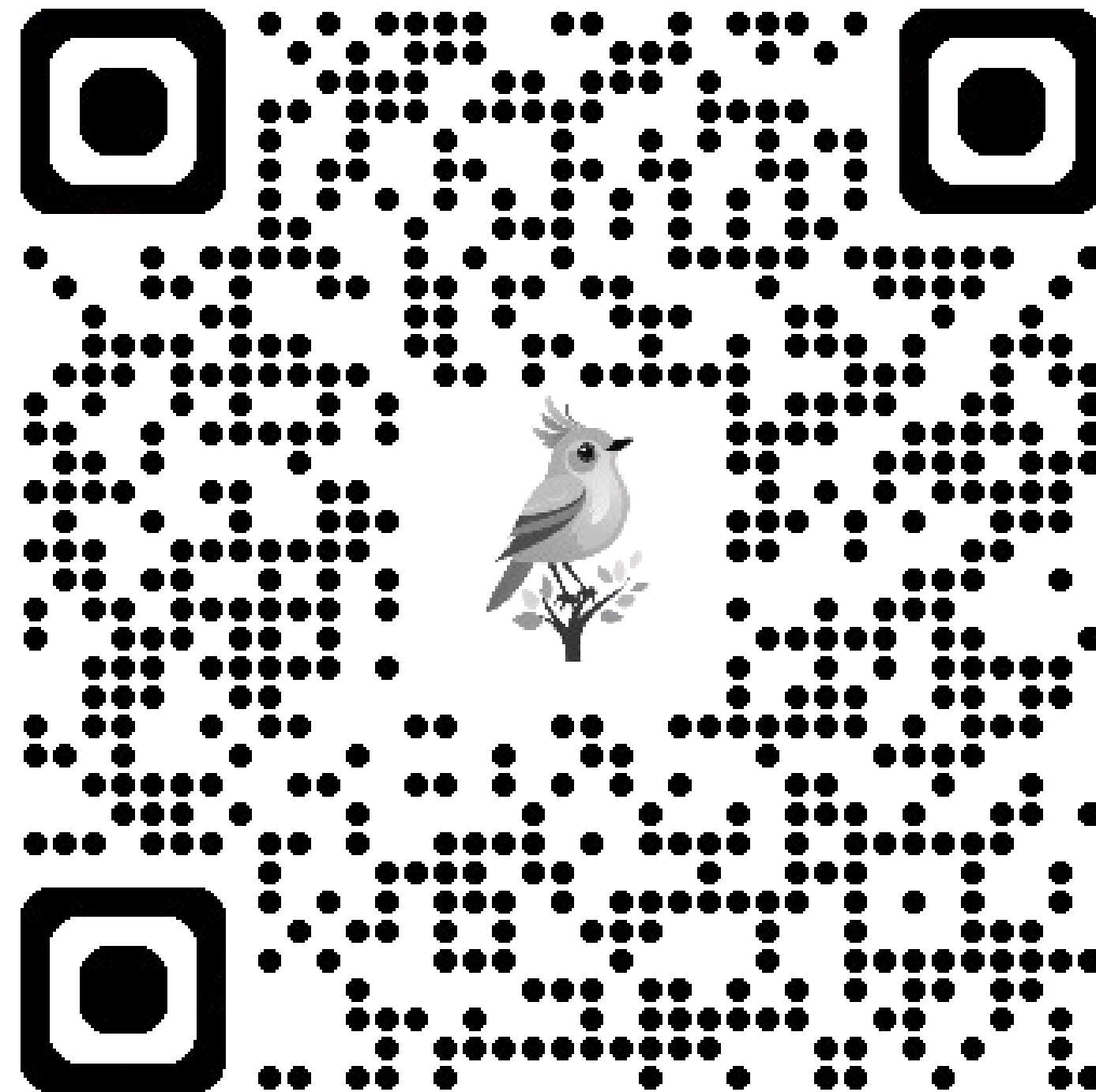


## Support Needed:

- Networking with policymakers and urban planners for habitat scalability.



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