AI for Environmental Sustainability in Non-Profits Training Course

16 - 20 Nov 2026

Geneva

5900 € (Per Person)

Ref: #AI2322_49853

Course Introduction / Overview:

This training course is designed for non-profit professionals seeking to use artificial intelligence to solve environmental challenges. As climate change and environmental degradation become more urgent, non-profit organizations need innovative tools to maximize their impact. This program moves beyond the theoretical to provide practical, hands-on knowledge on how to leverage AI for conservation, resource management, and climate action. The curriculum is informed by global thought leaders such as Noman Bashir from MIT, who explores the dual role of AI in both environmental impact and sustainability. It also draws on concepts from the book "Artificial Intelligence and Sustainability" by Mohamed Ahmed Alloghani, which discusses how to develop and evaluate AI products for a sustainable future. Participants will learn how to use AI to monitor biodiversity, track deforestation, predict natural disasters, and optimize resource use in a cost-effective way. BIG BEN Training Center believes that by giving non-profit leaders these tools, we can help them achieve their missions more effectively. This course is a crucial step for any organization looking to make a lasting, data-driven difference for the planet.

Target Audience / This training course is suitable for:

- Non-profit leaders and managers.
- Environmental conservation specialists.
- Sustainability officers.
- Program and project managers.
- Data analysts and scientists in the non-profit sector.
- Fundraisers and grant writers.
- Government agency personnel.

Target Sectors and Industries:

- Non-profit and Non-governmental Organizations (NGOs).
- Environmental and conservation agencies.
- Climate action and sustainability groups.
- Government agencies and equivalents.
- Research and academic institutions.
- Corporate social responsibility (CSR) departments.
- International aid and development.

Target Organizations Departments:

- Environmental programs.
- Research and analysis.
- Project management.
- Operations and resource management.
- Fundraising and development.
- Communications and advocacy.
- Data and technology.

Course Offerings:

By the end of this course, the participants will have able to:

- Use AI-powered tools for environmental monitoring and data collection.
- Develop predictive models to forecast environmental events and resource needs.
- Implement AI solutions to optimize energy and resource consumption.
- Use machine learning for biodiversity monitoring and species identification.
- Apply AI for better decision-making in conservation and land management.
- Understand and address the ethical challenges of using AI for environmental sustainability.
- Design data-driven strategies to improve a non-profit organization's impact.

Course Methodology:

The training course at BIG BEN Training Center uses an applied and collaborative methodology to ensure participants gain practical skills they can use immediately in their organizations. The program is built around case studies from real-world environmental projects where AI has made a difference, such as using AI to track deforestation in the Amazon or monitor coral reef health. Participants will engage in hands-on workshops and group projects, where they will work together to design and propose AI solutions for specific environmental challenges. The course will also use interactive exercises that require participants to analyze and interpret environmental data, giving them a deeper understanding of how AI works in practice. We believe this peer-to-peer learning environment is vital for non-profit professionals who often face unique challenges with limited resources. This methodology ensures that participants not only learn the technical aspects of AI but also gain a strategic understanding of how to implement it to drive real-world impact.

Course Agenda (Course Units):

Unit One: Introduction to AI for Environmental Impact

- The role of AI in sustainable development.
- Understanding environmental data.
- AI tools for environmental monitoring.
- The lifecycle of an AI project.
- Data collection strategies for non-profits.
- Ethical and social considerations.
- A foundational case study on a real environmental project.

Unit Two: Conservation and Biodiversity with AI

- Using AI for wildlife and biodiversity monitoring.
- Machine learning for species identification.
- Tracking illegal activities like poaching and logging.
- Applying AI to habitat conservation.
- Drone and satellite imagery analysis.
- Citizen science and data validation.
- Practical project on a conservation challenge.

Unit Three: AI for Climate and Resource Management

- Predicting climate trends with AI.
- Optimizing energy use in non-profits.
- Using AI to manage water and natural resources.
- Predictive models for natural disasters.
- Implementing smart systems for waste reduction.
- Using data to inform climate policy.
- Practical project on resource optimization.

Unit Four: AI for Social Impact and Public Advocacy

- Using AI to enhance public awareness campaigns.
- Analyzing social media data for environmental trends.
- Building AI models for community engagement.
- Automating environmental reporting.
- Visualizing and communicating data for advocacy.
- Identifying and engaging key stakeholders.
- Practical project on a communications campaign.

Unit Five: Implementing and Scaling AI in Non-Profits

- Building a data strategy with limited resources.
- Choosing the right AI tools and technologies.
- The importance of open-source and collaborative platforms.
- Measuring the impact of AI solutions.
- Creating a roadmap for AI adoption.
- Grant writing and funding for AI projects.
- Final capstone project presentation.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

How can a non-profit organization balance the high computational and energy costs of developing AI models with the mission of promoting environmental sustainability?

What unique qualities does this course offer compared to other courses?

This training course is unique because it is tailored to the specific needs and resource constraints of the non-profit sector. While other AI programs focus on commercial applications, this curriculum is dedicated to using AI as a tool for social and environmental good. A key differentiator is its practical focus on using open-source tools and cost-effective solutions that are accessible to organizations with limited budgets. Participants will not only learn about AI concepts but will also work on real-world projects that directly address challenges like wildlife conservation, climate change, and pollution. This applied, mission-driven approach is what sets BIG BEN Training Center apart. We also address the ethical and governance challenges specific to non-profits, such as data privacy and community engagement, ensuring that participants can implement AI responsibly. This course is an essential resource for non-profit professionals who want to lead their organizations toward a more impactful, data-driven future.