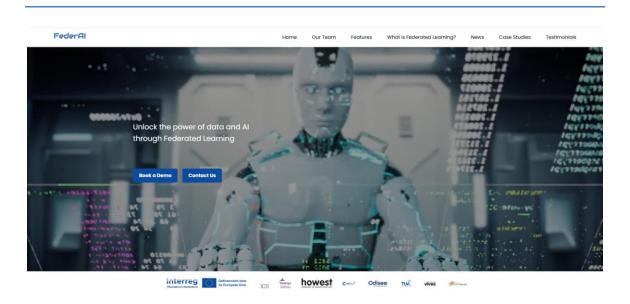# Final Technical Report – FederAI Website

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GitHub: https://github.com/khoakdn/federai

Live Site: https://federai.netlify.app/

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1. Introduction

This final report explains the improvements I made to the Federated Learning website after the midterm feedback round. The website is now called FederAI, which clearly reflects both Federated Learning and Artificial Intelligence. The updated version is more structured, visually appealing, and includes all required content from students, researchers, and the EU sponsors.

2. Project Purpose

The purpose of this website is to explain Federated Learning (FL) in a simple and engaging way. It helps students, educators, and the public understand what FL is, why it matters, and how it's used in real projects. After feedback, I improved the structure and added more visual content to support learning and sharing.

3. Technologies Used

- HTML5: For webpage structure
- CSS3: For layout and styling
- JavaScript (ES6): For interactivity
- Git & GitHub: For version control
- Netlify: For deployment

4. System Architecture

- Context: Educational website about FL for a general audience
- Frontend: Built using HTML/CSS/JS, hosted on Netlify
- Components: Sections include explainer, video, student posters, publications, and researcher list
- Codebase: Modular HTML and CSS blocks stored in GitHub repository

5. Key Features and Improvements

Compared to the initial version (https://art-ie.netlify.app/), the final website (https://federai.netlify.app/) includes:
- A new name and logo: FederAI, chosen based on stakeholder feedback
- EU and Interreg logos: Placed clearly to meet funding guidelines
- Researcher and student project sections: With posters, whitepapers, and Desi's video
- Cleaner navigation: Renamed menu items like News, Publications, and Events
- Better filtering options for publications and events
- Link to the Art-IE official website
- Marcel listed under 'Previous Members' as a researcher

6. Development Process

1. Feedback Review: I collected feedback from Li Li, Danny, and Xuemei during the midterm review.
2. Redesign: I updated the layout and components in Figma.
3. Content Collection: I reached out to Xuemei to gather student materials.
4. Development: I implemented the changes using HTML, CSS, and JS.
5. Testing: I tested on multiple devices and browsers.
6. Deployment: Final version uploaded to Netlify and synced with GitHub.

7. Accessibility and Responsiveness

- All images have alt text
- Text contrast checked for readability
- Navigation is keyboard accessible
- Layout is responsive on phones, tablets, and desktops

8. Challenges and Solutions

- Challenge: Adding extra student content
  Solution: Communicated with Xuemei and students to get posters and documents
- Challenge: Following EU logo guidelines
  Solution: Used the official Interreg VI guide to apply logos correctly
- Challenge: Simplifying navigation
  Solution: Renamed and reorganized menu items to make browsing easier

9. Conclusion

The final FederAI website reflects all feedback and meets communication standards. It offers clear, accessible content about Federated Learning and highlights the real work done by students and researchers. This version is ready for public viewing and future updates.