Part 4: Ethical Reflection (5%)

For my future AI project, which aims to develop a tenant-housing matching app, I will ensure adherence to ethical AI principles through the following strategies:

1. Fairness

- Ensure that the recommendation algorithm does not discriminate against users based on race, gender, or socioeconomic status.
- Regularly audit the model outputs to identify any unintentional biases and apply mitigation strategies such as reweighting or fairness-aware algorithms.

2. Transparency and Explainability

- Clearly explain to users how their data is being used and how recommendations are generated.
- Provide interpretable outputs, such as highlighting key factors influencing housing matches, so users can understand the decision process.

3. Privacy

- Collect only necessary personal information, storing data securely and encrypting sensitive details.
- Comply with data protection regulations like GDPR by allowing users to access, correct, or delete their data.

4. Accountability

- Implement logging mechanisms to track model decisions and data processing steps.
- Establish a process for users to report concerns or errors in the system.

5. Sustainability

- Optimize code and infrastructure to minimize energy consumption, especially for model training and deployment.
- Consider edge-computing solutions where feasible to reduce cloud dependency and energy costs.

By integrating these ethical principles into the project from the design phase through deployment and monitoring, I aim to create an AI system that is responsible, fair, and trustworthy for all users.