TASK 5: Data Science Ethics Discussion

One major ethical concern in data science is **bias**, which can lead to unfair and discriminatory outcomes in decision-making systems. Bias often arises from unrepresentative or historically skewed datasets, reflecting societal inequalities and reinforcing stereotypes. For example, biased algorithms in hiring processes may favor certain demographics over others, perpetuating discrimination. Similarly, facial recognition systems have been shown to misidentify individuals from minority groups at disproportionately higher rates, leading to potential injustices. Addressing bias requires careful data collection, transparent algorithm design, and continuous evaluation to ensure fairness and inclusivity in AI-driven decisions. Without proactive mitigation, biased data science models can amplify social disparities rather than reducing them.