

Non-IID Medical Data



⚠️ Different patient demographics

Age, gender, ethnicity vary by location



⚠️ Varying disease prevalence

Regional differences in disease patterns



⚠️ Hospital-specific protocols

Different treatment guidelines and standards



⚠️ Equipment differences

Imaging devices, sensors vary in quality



⚠️ Regional health patterns

Climate, lifestyle, socioeconomic factors



Impact: Model bias • Slower convergence • Reduced accuracy