Vision, Challenges, Roles and Research Issues of Al in Education

- **Key Idea:** All in education (AIED) faces cross-disciplinary challenges but offers frameworks for precision interventions.
- Roles of Al in Learning:
 - o Intelligent Tutor (guides learners).
 - o Intelligent Tutee (learner teaches AI).
 - Learning Partner/Tool (supports higher-order thinking).
 - o Policy-Making Advisor (guides systemic decisions).
- Research Challenges: Personalization, evaluation of AI effectiveness, redefining theories, big data analytics, ethics, human-AI collaboration.
- Connection to Study: Provides methodological parallels: just as AIED aligns AI to learning outcomes, my study aligns sentiment AI to business performance outcomes. Precision interventions in clinics resemble "personalized education" — e.g., customizing clinic improvements based on feedback analysis.