Software Engineering – Practitioner's Approach (SQA)

Key Concepts:

Process Orientation:

- o Integrate QA from planning to delivery.
- o Continuous verification and validation.

• Standards & Compliance:

o Follow ISO, IEEE, or domain-specific standards for data handling.

Metrics & Reviews:

- Use defect density, reliability, and usability metrics.
- Conduct peer reviews and formal inspections.

• Risk Management:

 Identify potential quality risks early (data quality, algorithm drift, privacy breaches).

• Continuous Improvement:

Use feedback loops from clients and system monitoring.

ClinicTrends Al Application:

- Model Validation: Incorporate verification steps to ensure sentiment and topic models maintain accuracy over time.
- Dashboard QA: Test rendering across browsers and devices before client rollout.
- Security Audits: Ensure CSV uploads and NPS datasets meet HIPAA-equivalent privacy standards
- Regression Testing: Before releasing new features, run automated tests to ensure no degradation in data accuracy.

Combined Impact for ClinicTrends AI

If we integrate the *Presentation Skills* content with *SQA best practices*:

- Before a pitch or demo: SQA principles can ensure the product functions flawlessly during live demonstrations.
- **During presentations:** Use modern, audience-tailored visuals to build trust and engagement.
- **After presentations:** Follow up with accurate, secure, and well-documented product updates that match what was promised.