Gender-Specific Reporting AI

Objective

To prevent gender-specific reporting errors by automatically highlighting gender-inconsistent terms in diagnostic reports, reducing medico-legal risks and enhancing reporting accuracy.

Target User

Radiologists and reporting doctors using the Medimaze PACS platform for diagnostic documentation.

Input & Output

- Input**:**
    - Patient gender (M or F)
- Output**:**
    - A dictionary of gender-inconsistent keywords, highlighted in red on the reporting screen

Functionality

- Takes patient gender as input
- Identifies and returns gender-mismatched words based on a predefined keyword dictionary
- Highlights those words in red directly in the report
- Allows doctors to review, delete, or ignore the suggestions based on their discretion

Workflow Integration

1. Doctor begins typing report in PACS
2. PACS sends gender info to AI via API
3. AI processes the report, returns red-flagged words as a dictionary
4. PACS highlights these words in red on the report editor
5. Doctor makes corrections if necessary before final submission

System Architecture Overview

- Frontend**:** Medimaze PACS reporting interface
- Backend**:** AI model hosted on a production server
- Communication**:** REST API between PACS and backend AI service
- Deployment**:** Internal production environment (secure, no third-party apps)

Benefits / Impact

- Prevents accidental gender-based errors in diagnostic reporting
- Reduces risk of patient complaints or legal action
- Enhances doctor confidence and documentation reliability
- Fully integrated within existing PACS workflow without external dependencies

Summary

The Gender-Specific Reporting AI adds a critical safety layer to the diagnostic workflow by catching gender-inconsistent terms in real-time. Seamlessly integrated within the PACS, it empowers doctors to report accurately, reduces legal risks, and promotes responsible reporting practices.