

VivaHeart: Image Analysis System for Heart Disease Detection in Female Smokers

Press Release:

Today, we are proud to introduce VivaHeart, an AI-powered image analysis system designed to revolutionise the detection of heart disease in female smokers. VivaHeart harnesses advanced artificial intelligence to analyse cardiac CT scans, identifying early signs of coronary artery inflammation. By comparing scans of smokers and non-smokers, it highlights critical differences that may contribute to higher heart disease risks. With personalised risk assessments, VivaHeart empowers healthcare providers to make more informed, early diagnoses, ultimately improving the chances of preventing life-threatening heart conditions. VivaHeart is set to change the way heart disease is detected and treated in females, marking a new era in AI-assisted healthcare.

Mission: Our mission with VivaHeart is to leverage the power of AI to detect and prevent heart disease early, especially in women who smoke, a demographic often underdiagnosed. We aim to provide healthcare professionals with precise, data-driven insights that enable timely and personalised interventions to save lives.

Features and Benefits:

- **AI-Powered Early Detection:** Identifies early signs of coronary artery inflammation, improving the chances of early intervention and prevention of heart disease in female smokers.
- **Comparative Analysis:** Analyses and contrasts the scans of smokers versus non-smokers, allowing healthcare providers to understand how smoking affects the heart and arteries.
- **Personalised Risk Assessments:** Generates individualised risk profiles for each patient, providing actionable data for healthcare providers to make better clinical decisions.
- **Enhanced Diagnostic Accuracy:** AI ensures faster, more accurate interpretations of cardiac CT scans, reducing human error and speeding up the diagnosis process.
- **User-Friendly Integration:** Seamlessly integrates with existing healthcare imaging systems, making it easy for hospitals and clinics to adopt without significant infrastructure changes.

Frequently Asked Questions:

1. **What makes VivaHeart different from other cardiac imaging tools?** VivaHeart is specifically designed for female smokers, a demographic often overlooked in heart disease research. It focuses on early detection of coronary artery inflammation and provides a comparative analysis between smokers and non-smokers to deliver a more nuanced diagnosis.
2. **How does VivaHeart ensure patient privacy?** VivaHeart complies with all healthcare privacy regulations, including HIPAA and GDPR. All data is encrypted, and access is limited strictly to authorised healthcare professionals to ensure the highest standards of patient confidentiality.

3. **Is VivaHeart recommended only for smokers?** While it is particularly effective for female smokers, VivaHeart is also useful for non-smokers and can provide insightful comparative data for healthcare providers to make more informed decisions about a patient's heart health.
4. **How accurate is VivaHeart compared to human radiologists?** VivaHeart uses advanced AI algorithms that have been trained on thousands of CT scans to enhance accuracy. It complements radiologists' work by providing an additional layer of precision, reducing diagnostic errors.
5. **What kind of healthcare providers can use VivaHeart?** VivaHeart is designed for cardiologists, radiologists, and general healthcare providers who conduct cardiac CT scans. It can be integrated into both large healthcare systems and smaller clinics, providing wide accessibility.

User Quotes:

- *“VivaHeart’s ability to detect early signs of heart disease in my smoking patients has been a game-changer. The personalised risk assessments allow me to make more informed decisions and intervene early. It’s saving lives.”* – Dr. Maria Sanchez, Cardiologist.
- *“As a healthcare provider in a rural area, I’ve found VivaHeart to be invaluable. The AI does more than just analyse scans; it gives us insight into how smoking impacts women’s heart health. It’s a tool every clinic should have.”* – Nurse Practitioner, Sarah Thompson.