Ai-MicroCloud™ for HealthCare: Use Cases

Tangent Works **Time Series Data Analytics**

- **Hospital Admissions Rate:** Hospitals need to organize and optimize their supply chains and staffing based on admission rates of patients. They need to capture fluctuations based on factors like weather, calendar and time of day, disease spread and epidemiological evolutions.

- **Strategic Supplies Forecasting:** Adaptive forecasting models that capture new dynamics fast and give insights into underlying demand influencers. Consumption of medical supplies and scarce raw materials. Normal fluctuations in consumption patterns, complemented by structural changes due to extreme events, climate changes, epidemiological changes.

Edge Video Analytics

Arrhythmia Prediction: Keras model used to detect arrhythmias in ECG time series data

Pneumonia Detection: Application showcases classifying the probability of Pneumonia in X-Ray images

Brain Tumor Segmentation: U-Net architecture used to segment brain tumors from raw MRI scans

Robotic Instrument Segmentation: Semantic segmentation to identify the segments of robotic instruments within a video frame