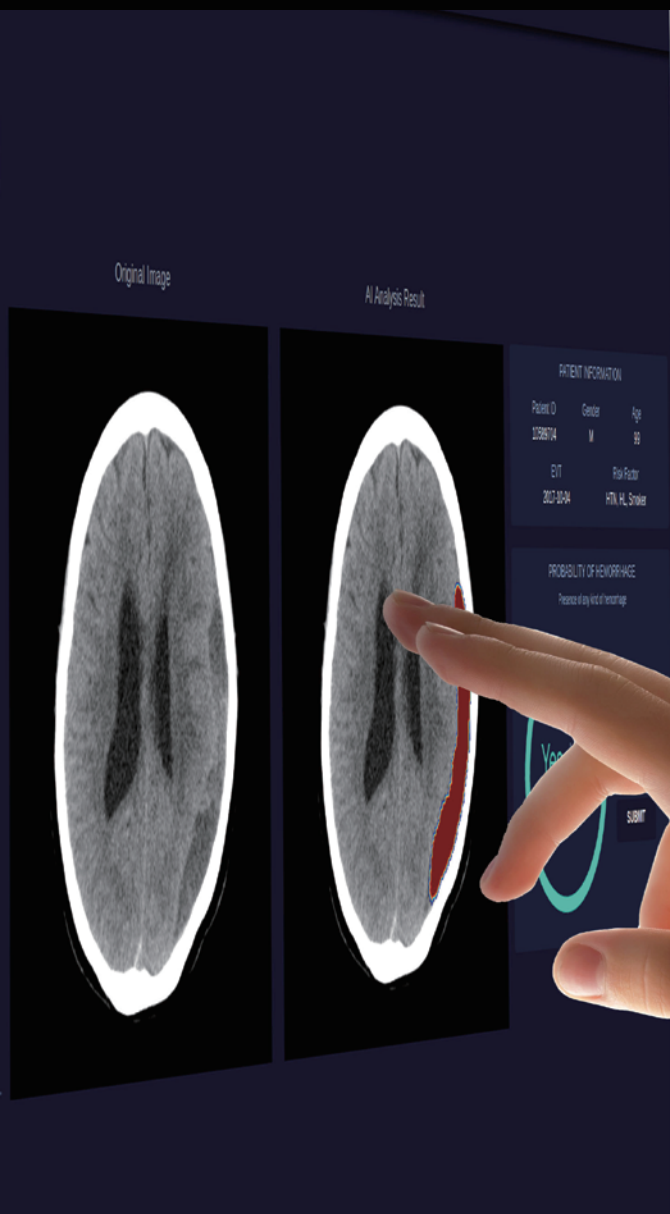
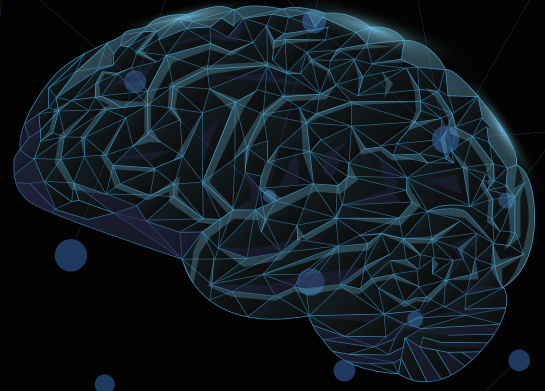


AI for Human Benefit, Everywhere

JBS-05K

AI based Stroke Total Solution



MEDIHUB STROKE





JBS-05K

AI based Ischemic Stroke Early Sign Detection Solution

| Summary

Ischemic Stroke is a disease caused by blood vessels clogged in the part of the brain. It shows various symptoms, such as unconsciousness, dizziness, and body paralysis depending on the clogged location. Therefore, early detection and treatment are required to prevent severe conditions. Also, the treatment method varies depending on the symptoms and location so it is necessary to pinpoint the exact location.

JBS-05K is an artificial intelligence medical solution that detects ischemic stroke from a patient's brain CT and provides visualization by detecting the probability and location of the cerebral infarction.

| Key Components & Performance

- Single Data Center AUC AUC 92%
- Analysis Time : within 15 seconds
- Convenient patient data management through PACS interworking
- Display analysis result as the web-based user interface

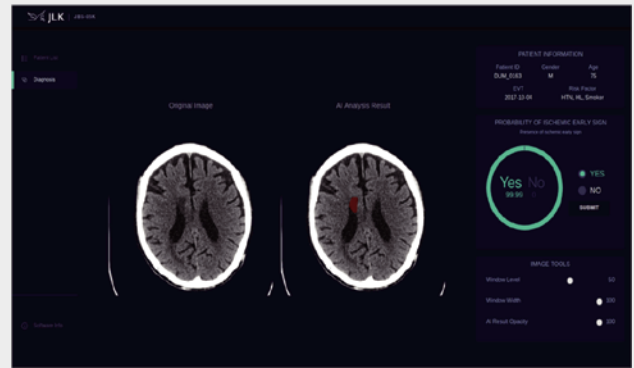
| Input / Output

- **Input Data** Patient's Brain CT DICOM
- **Output Information** Ischemic Stroke Area, Ischemic Stroke Probability

Solution UI

PATIENT ID	NAME	AGE	GENDER	ACQUISITION DATE	DIAGNOSIS
0001	UNKNOWN	71	F	2020-02-12	Diagnosis
0002	UNKNOWN	61	F	2020-02-04	Diagnosis
0003	UNKNOWN	74	F	2020-06-25	Diagnosis
0004	UNKNOWN	66	F	2022-09-17	Diagnosis
0005	UNKNOWN	61	F	2022-07-12	Diagnosis
0006	UNKNOWN	71	F	2022-01-04	Diagnosis

1 Analyzed Ischemic Stroke patients list UI



2 Ischemic Stroke Analysis result UI

Unique Functionality

- Ischemic Stroke early detection based on CT
- Ensemble algorithm is applied to U-Net and Patch-based U-Net to accurately detect Ischemic Stroke regions of various sizes



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