

HYUN JAE JEONG

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RESEARCH INTERESTS

Deep learning & Digital Healthcare

Medical image analysis & Biomedical Signals

Diagnosis & Prognosis Medical Biomarkers

EDUCATION

Korea University | Seoul, Republic of Korea

Mar 2018 -

Major in Biomedical Engineering

- Interdisciplinary major (2nd major) in Artificial Intelligence
- Relevant Coursework: Medical Imaging, Statistics, Mathematics, Machine Learning, and Programming

RESEARCH EXPERIENCES

Yonsei Severance Hospital. Center for Clinical Imaging Data Science Lab (Advisor: Hwiyoung Kim, PhD) | Seoul, Republic of Korea

Research Intern

Jan 2021 -

- Conducted research on radiomics for glioblastoma and metastasis in brain MRI, brain tumor segmentation, and the impact of image intensity normalization on radiomics model performance
- Collaborated with radiologists, medical physicists, and computer scientists. Participated as a co-author in peer-review journal
- Joined the Brain Research Funding Project: Auto-Segmentation Skull CT Image for Craniotomy, Normal CT Image-to-DE CT Image for resolution development

AWARDS & RECOGNITIONS

Representative of Korea University | England, Birmingham Universitas 21 RISE Competition

Korea Univ Team Leader

Oct 2020 – April 2021

- Conducted research on IBD(Inflammatory Bowel Disease) Blood Test Analysis, 3D MRI Image Analysis - Semifinal is Underway

University President Award (1st place award) | Korea Univ. Creative Challenge Program(CCP)

Data Scientist

Apr 2020 – Feb 2021

- Title : Alzheimer Monitoring Algorithm using by AI speaker
- Implemented MFCC, Wavelet Transform for analyse patients voice. Made Alzheimer prediction model using by deep learning

1st place award | CDTB Database Competition

Data Scientist

Aug 2020 – Feb 2021

- Title : Self Detection of Parkinson Disease System for Patients using by wearable devices
- Tabular Wearable Device Analysis & Parkinsons' Drawing CNN Analysis.

3rd place award | Campus CEO Startup Competition

Data Scientist

Oct 2020 – April 2021

- Co-founder of 'IBDecision', Made IBD patients care application 'BDCare' (Underway)

- Automated Food Detection - Object Detection, IBD blood test, Endoscope image analysis

VOLUNTEERING

Pyeong Chang Winter Olympics | IOC Aug 2017 – Feb 2018

- Pyeong Chang Winter Olympics Volunteer (Reporter Domitory)
- Domitory & Gangneung Olympic Park

Director & Lecturer | academic club director (Coding Tigers) Oct 2019 – Mar 2020

- Coding Tigers Founder & Leader of The club
- Directed an academic club aimed at studying deep learning and programming
- Taught Machine learning and python to junior and sophomores in BME

Foreign Students Volunteer | KU Korean Language Center Feb 2020 – Mar 2020

- Taught korean & korean cultures to KU exchange students

CONFERENCES

1. Skull Segmentation trained by Dual Energy CTA Dataset

Hyun Jae Jeong, H Choi, et al | Korean Society of Artificial Intelligence in Medicine (KoSAIM), 2021, (Oral Presentation)

SKILLS

Language

- Korean
- English

Programming

- Python 3.7
- Matlab
- ML/DL frameworks and libraries – Pytorch, Keras and other import libraries

Typesetting Document & Wireframe

- MS office
- Adobe Premium (Illustrator, XD, Photoshop)

ACADEMIC ACTIVITIES

Participants | Koala Coding Circles Data, 1st generation, Hackathon Apr 2019 – Oct 2019

Participants | Michael J.Fox Foundation Online Parkinson' Seminar, USA Oct 2020

Participants | Korea University BME AI academic club (KUBME-AI) Apr 2019 – Oct 2019