Si Hang
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PROPOSED TOPIC
Robust datamining for medicine

RESEARCH PROJECT SUMMARY
Using technologies such as deep learning and machine learning, we aim to tackle the uncertainty in medical data and improve the decision-making capability of systems by uncovering the underlying "gold standard" through relationships between data. Ultimately, the developed models or new methods will be applied to real-time medical data to assist doctors in diagnosis and treatment.

EDUCATION

Wuhan University 01/09/2019-30/06/2023
Major:Physics
GPA: 3.17/4.0
Core Courses:Introduction to Civil Engineering, Engineering Drawing, Advanced Mathematics, General Physics, Linear Algebra, Methods of Mathematical Physics, Theoretical Mechanics, Atomic Physics, Electrodynamics, Ordinary Differential Equations, General Physical Experiments, Theoretical Mechanics, Quantum Mechanics, Solid State Physics, Material Preparation Technology,Particle Physics, Radiation Physics and Protection, AstroPhysics, Thermodynamics and Statistical Physics, Frontiers of Physics, Biomaterials Science

COURSE CERTIFICATE

Supervised Machine Learning: Regression and Classification, authorized by DeepLearning.AI and Standord University
Advanced Learning Algorithms, authorized by DeepLearning.AI and Standord University
Programming for Everybody(Getting Started with Python), authorized by University of Michigan
Neural Networks and Deep Learning, authorized by DeepLearning.AI

RESEARCH PROJECT

Research Assitance – Hong Quan, Department of Medical Physics, School of Physics and Technology, Wuhan University

24/11/2022-07/08/2023

Machine Learning and Data Science - Development of Applications Online Research Seminar, Hosted by Prof. Mark, MIT

07/10/2022-06/11/2022

PUBLICATIONS

Pang B, Si H, Liu M, et al. 2023, **Comparison and evaluation of different deep learning models of synthetic CT generation from CBCT for nasopharynx cancer adaptive proton therapy.** Medical Physics, 06 October 2023, https://doi.org/10.1002/mp.16777

ENGLISH LEVEL

TOEFL 97 (R:27 L:27 S:21 W:22)