

Ye Tian

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No.2500 Songhuajiang RD, Hongkou District, Shanghai

EDUCATION

Fudan University, Shanghai

Sept. 2018 – Present

Bachelor of Electronic Science and Technology (Honor Class)

GPA: 3.68/4.00 (Total), 3.78/4.00 (Second Year)

Ranking: 9/204

Course: Pattern Recognition and Machine Learning (A), Programmable Device and Hardware Description Language (A), Microcomputer Principle and Interface Technology (A), Digital Signal Processing (A)

Honor: 2018~2019 Outstanding Student of Fudan University, 2018~2019 Second Prize Scholarship, 2019~2020 First Prize Scholarship (Huawei Scholarship), 2019 Fourth Place of Faculty Cup Table Tennis Competition

ACADEMIC EXPERIENCE

Fudan MediaNET

Jan. 2021 – Present

- Develop SQL machine learning system based on Apache Drill's User Defined Function
- Enable users to train machine learning models including Decision Tree, Logistic Regression and KNN model using SQL queries
- Adopt Google Protocol Buffers to serialize and deserialize machine learning model

Wang Dao Project (FUDROP)

Jul. 2020 – Present

- Propose domain adaption algorithm combined with Markov Random Field that minimizes energy on source domain and target domain
- Carry out experiments on toy datasets and hyperspectral datasets, analyse results and pass the interm report

Course Projects

Drug Property Prediction

Pattern Recognition and Machine Learning

- Review existing property prediction approaches and give report *Property Prediction Briefing* in class
- Build Self-Attention LSTM model and the basic framework of the program, provide commandline options for training and evaluating models and data preprocessing functions
- Prepare the Review of Existing Methods and Algorithm Analysis and Code Summary sections of report

Reproduce and improve JPEG2000

Digital Signal Processing

- Devise scalable, zero config and multiprocess accelerated framework for implementing image processing algorithms and provide profound command line interface for external programme calling
- Implement color transform, tiling and quantizing, cooperate with classmate to implement EBCOT encoding and wavelet transform

SKILLS

Programming Languages: Java, Python, MATLAB, Shell, C/C++, Golang, Julia, Assembly, L^AT_EX

Research Skills: Coding, literature review, mathematical modeling, data cleaning, experiment result analysing

Language Ability: TOEFL IBT 98, CET-6 612