Yinkai Wang

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EDUCATION

George Mason University   Aug 2018 - Aug 2021

Computer Science Bachelor VSE bachelor   Fairfax

- GPA: 3.51/4.00
- Honors/Awards: Dean's List(2018-2020)

Huaqiao University   Aug 2017 - Aug 2022

Computer Science Bachelor VSE bachelor   Xiamen

RESEARCH EXPERIENCE

Ensemble Machine Learning System for Student Academic Performance Prediction (Accepted by W4U, EDM 2021)

Joint first authors

- Using ensemble machine learning system to predic students' final grade.
- Due to the influence by COVID-19, the education to students faced to a severe probelm: It's much more harder for teacher to help student and know students' learning condition.
- This model consists of two components, ensemble feature engineering module and ensemble prediction module. Extensive exper- iment results have shown the superiority of our model over other traditional machine learning models, both in stability, efficiency and accuracy.

Deep Latent-Variable Models for Controllable Molecule Generation (BIBM 2021 in submision)

The second author

- Proposing several deep latent-variable models to generate small molecules with desired molecular properties.
- The models operate under supervised, disentangled representation learning and leverage both graph representation learning to learn inherent constraints in the chemical space and inductive bias to connect chemical and biological space.
- The evaluations show that the models are a promising step in controllable molecule generation in support of cheminformatics, drug discovery, and other application settings.

Multilingual Geospatial Language Expression Discovery

Research Assistant

- Take parallel data between English and another language, Use existing tools to discover GLEs in English.
- Align the parallel English--X data, Project the labels from English to X.
- Compare the projected annotations on cmn,ell,ita with the ones produced by the in-language models.

Diffusion Probabilistic Models for Protain Generation

Research Assistant

- Using diffusion probabilitic models to generated protain.
- Using short range and lang range to evaluate the result.

Applications of Machine Learning for Quaternary Ammonium Compounds

Research Assistant

PROFESSIONAL EXPERIENCE

Bytedance   Apr 2021 - Jul 2021

Intern DevEco   Beijing

- Focus on the base of hostapp of android, which have the coupling relationshiop with most of app from bytedance, like tiktok, lark, Toutiao...
- Create a mock setting implement to help QA test.
- Deal with the crash and bug.
- Making a great and comfortable enviroment for all the deleloper who are developing microapp on bytedance.

Google Kaggle

Google Smartphone Decimeter Challenge

- Get top 20 % on the competition.
- Using Kalmen fiflter and Gaussian filter to clear the noise.
- Using BO to find the hyperparamer of Kalmen fiflter.
- Mean the data of different phone type to clear the outlier.

SKILLS LIST

Python, C, Java, Kotlin, Machine Learning, Deep Learning, AI for Science, Deep Graph Learning, Natural Language Processing