YIZHEN YUAN

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TECHNICAL STRENGTHS

Programming Languages: Java, Scala, MySQL, C, Python, R, neo4j, MongoDB,VBS
Interest: Cryptography, Algorithms and Functional Programming

EDUCATION

Purdue University, IN (BS) : GPA 3.76 Dean's list student and semester Honor   *August 2017 - May 2021*

B.S. in Computer Science Honor, concentrate on Machine Learning, Security and Database : GPA 3.79

B.S. in Statistics: GPA 4.00

B.S. in Mathematics : GPA 4.00

Purdue University, IN (MS) : GPA 4.00   *August 2020 - current*

M.S. in Computer Science: GPA 4.00

PROJECTS

All projects here are not in class project and they are finished within small group (Team member ≤ 3)

NLP project with Prof. Berkay Celik   Aug 2019 - May 2020

· Used Latent Dirichlet Allocation(LDA, not the PCA related one) model to fit professors' paper into different clusters
· Developed evaluation function to find the most fit model and find similarities within and between each professors' paper. Finally, visualized professors' difference into a graph by t-SNE
· Can be viewed at yyzyyz0803.pythonanywhere.com/tracks
· Used Gensim, flask, bokeh, t-SNE, Python and Java

Project about Visualizing textbooks with Prof. Hisham Benotman   Dec 2020-current

· Extracted information from textbooks and connected index with the section in the book to provide students a more intuitive way of viewing the book
· Compared to Word-cloud, we provide another way of viewing a topic with level and order
· Coded in Java & Python

Round Table Game   ?-current

· Implemented first version (fixed AI) in VBS when I was in middle school.
· Refracted code and added more features after I came into CS major here by Java
· Updated AI by decision tree and E-M algorithm

EXPERIENCE

Teacher Assistant CS 240(Programming in C) & CS 251(Data Structure)   June - Dec 2019

· Holding sessions to help student with their homework and review what they have studied in the class.
· Grading their Midterm and Final Exam (CS240 only).

SPECIAL SKILL

- Fluent and Literate in Chinese Mandarin and English

- Basic Japanese listening, reading and speaking

- Deep understanding of Physiological about Mb-ti (N only) and therefore could make team members work in a comfortable environment