Doeun Lee

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EDUCATION

The University of Texas at Austin **May 2024**
Bachelor of Science in Computer Science
Minor: Business Certificate: Applied Statistical Modeling
Overall GPA: 3.86/4.00

Relevant Coursework: Natural Language Processing, Operating Systems, Principle of Machine Learning, Algorithms and Complexity, Compilers, Cyberphysical Systems, Elements of Regression Analysis

EXPERIENCE

Undergraduate Research Assistant, UT Austin – *NLP, HCI Research Lab* **05/2023 – Present**
- Participated in analyzing information seeking behavior between two interfaces, traditional search and ChatGPT.
- Led user study sessions for recording response for different interfaces and classified 200 questions to be used.
- Developed code for analyzing response similarity and additional user behaviors using BERTScore and Python.

QA Test Engineer Intern, SparkCognition – *Artificial Intelligence Solutions Company* **05/2022 – 08/2022**
- Developed back-end Dredd tests for API call payload match between server and client, and assisted debugging.
- Created Pytest to test API response result match for test cases of feature management service's fabric endpoints.
- Collaborated in a scrum team of 7 as QA engineer for optimization of AI fabric hyperopt and auto-nbm service.

Software Engineer Intern, Vplus Lab – *Automated Software Test Company* **07/2021 – 08/2021**
- Participated in the testing of automated software testing solution, CROWN 2.0, used by Hyundai automobiles.
- Developed Selenium code for UI test, including changing xPath of test case generation and conducted error test.
- Architected the product UI testing manual based on updated front-end features such as Show Test Cases.

PROJECTS

Analyzing and Mitigating Dataset Artifacts **11/2023 – 12/2023**
- Discovered spurious correlations in SQuAD dataset using ELECTRA-small model by using adversarial method.
- Enhanced the evaluation accuracy by 30.5% through training on a mixture of adversarial and original dataset.
- Evaluated answers of 50 sampled examples of adversarial set and classified by question type and error type.

Pancreatic Cancer Survival Prediction **04/2023 – 05/2023**
- Performed feature engineering and data preparation on 3171 raw data to increase the performance of the model.
- Conducted naïve-bayes, random forest, SVM, and neural net for survival prediction resulting in 68% accuracy.
- Improved accuracy to 72% by dropping outliers using SVM then conducting SMOTE on several datapoints.

SKILLS

- **Languages:** Korean(Fluent), Chinese(Intermediate), Spanish(Intermediate)
- **Programming**: Python, Pytest, Java, C, R, Spring Framework, Selenium, Dredd

ACCOMPLISHMENTS

- **Computer Science Transfers' Society, Officer of Outreach 2023-2024**
- **Korean Engineering Student Association, Vice President and Project Leader 2021-2023**
    - Led weekly meetings with a group of 9 members to teach web development skills.
    - Led weekly meetings with a group of 7 members for food ladder web application development.
- **Undergraduate Korean Association, Vice President of Informatics 2022-2023**
    - Created and managed website for UKA and led group of 6 directors for yearlong publication project.

UT Austin Dean's List Fall 2020, Spring 2021, **University Honors** Fall 2021, Spring 2022, Spring 2023