Xinbei Zhu

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Education and Technical Proficiency

Master of Science, Computer Science Graduating May 2025
GPA: 4.0; Virginia Tech

Bachelor of Science, Computer Science Augest 2019 - May 2023
GPA: 3.53; Virginia Tech

Bachelor of Science, Computational Modeling and Data Analytics Augest 2019 - May 2023
GPA: 3.53; Virginia Tech

Project Experiences

On the Robustness of Facial Privacy Protection Fawkes against AI Denoising Attacks September 2023 - December 2023
Aim to explore the potential weaknesses of Fawkes under AI denoising attacks.

Main Work:

- Prepare the dataset for training by ensuring data quality and consistency.
- Identify state-of-the-art denoising models.

Parcel Damage Classification January 2023 - May 2023
Set out to solve the problem of identifying damaged packages in hopes that such a system will be implemented in a distribution center to automatically identify and mark damaged packages as they pass through.

Main Work:

- Use Google iCrawler to gather custom image dataset and use python script to remove duplicate images.
- Incorporate the YOLO pre-trained model into our labelled dataset to develop a novel classification model.
- Develop the front-end interface for package classification.

How to Maximize Customer Value Potential? August 2022 - December 2022
Client/Sponsor: Grameenphone - Bangladesh

To reduce customers' churn rate, increase customers' lifetime value and maximize revenue.

Main Work:

- Clean the data using Removing Records Method.
- Utilize Classification and K-means Clustering Models to analyze and train data, clustering customers into distinct groups. Determine group preferences to guide the adjustment of services accordingly.

Work Experiences

Inspur Jinan, China, October 2021 - December 2021
Digital R&D Team; Role: Software Developer Intern.

Learn about natural languages processing and use Bert model for word similarity analysis.

Main Contributions:

- Scraped data and keywords from the web; cleaned the database, and labeled the data. Adjusted the parameters of the Bert model to improve the accuracy of the model.

Publications

Dr. Mingqiu Wang, Min Ren, Shengli Zhao, **Xinbei Zhu**, Robust Optimal Subsampling Based on Weighted Asymmetric Least Squares, *Springer, Statistical Papers (2023).*

Skills and Languages

Computer Languages:
C, Java, Python, R, MATLAB, Latex
Applications & Tools:
Microsoft Office(Word, PowerPoint, Excel)
VS Code, Eclipse, Anaconda, RStdio, Git

Languages:
Chinese