Truong Pham

\(\(\(\(\) \) \) 493-6178 |
\(\) fanquantrun@gmail.com |
\(\) truongpham99 |
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Education _

University of Texas at Dallas

Richardson, TX

PhD in Computer Science

2022-present

Received Teaching Assistantship Award

Illinois Institute of Technology

Chicago, IL

BS IN COMPUTER SCIENCE - MINOR IN STATISTICS

2017-2022

GPA: 3.87/4.0 - Graduated Summa Cum Laude

Research.

Differentially Private Probabilistic Databases

Dr. Yuan Hong - IIT

RESEARCH ASSISTANT

F=11.202

 This is the first attempt in literature to implement Differential Privacy in Probabilistic Databases. Formulated a general Privacy Bound for arbitrary Privacy Mechanisms on noisy data using DKW-M inequality. Precisely derived the Privacy Budget for Gaussian Mechanism on noisy data.

Bias in Disinformation Dr. Kai Shu - IIT

RESEARCH ASSISTANT

Spring 2021

• Investigates how information is manipulated by finding information bias in fake news. Extracted word semantics using word2vec algorithm and comparing them using the WEAT algorithm. Found significant bias regarding to health and vaccination content on fake news. This information can be used to detect misinformation.

Projects _

DrugTest

• An Android app built on React Native framework that recognizes drug users through pictures. The app asks for a portrait of the user and passes it to a pipeline running on Flask server. To recognize the drug user, the features of their faces are extracted using OpenCV and then classified by a Deep Learning model. The model is finetuned using a Tensorflow's pretrained model.

MoodPal

• A Chrome extension that tracks user's emotion through their social media statuses (with their permissions). If the user is feeling low, a cat video will automatically pop up to improve their moods. The backend was a Flask server that houses a model which yields predictions to be picked up by the extension. The extension constantly sends social media statuses to the model. The finetuned LSTM model on Tensorflow predicts the mood of the user with 90% accuracy.

Fake News Detector App

• An Android app that lets people check for misinformation using Artificial Intelligence. The user can copy the link to the article that they want to fact check into the app and that information will be processed by a Flask server, which hosts the fake news AI model. There is also a panel of news from trustworthy sources for the convenience of the users.

Experience _____

VNG Hanoi, Vietnam

Al Research & Development Intern

May - Aug. 2019

• Created a pipeline to read densely worded street ads. The word signs were captured by a finetuned EAST model on Vietnamese street ad fonts with mAP score of 0.67. The extracted words were then passed to a finetuned Attention-based OCR. Created scripts to collect and annotate the pictures through Google Image search engine.

Illinois Institute of Technology

Chicago, IL

LABORATORY TEACHING ASSISTANT - SYSTEM PROGRAMMING

Jan - May. 2019, Sept. 2019 - Dec. 2019

- Taught a section of 40+ students on basic concepts of Operating System like Paging, Signaling, Lock, etc.
- Introduced students to command line tools like Tmux, Vim, GDB, etc.

Skills _

Languages Python, C, Javascript, SQL, LaTex, Java **Frameworks** Flask, PyTorch, React Native, Git