Experience _____

Dayta AI Hong Kong

MACHINE LEARNING LEAD

Sep 2018 - Jun 2024

- Responsible for leading Computer Vision and NLP tasks and designing experiments
- Developed question answering systems for Traditional Chinese based text corpora.
- Developed script conversion methods for conversions between Traditional Chinese and Simplified Chinese.
- Developed paraphrasing systems for Traditional Chinese based news texts

Education

Hong Kong University of Science and Technology

Hong Kong

MASTERS IN BIG DATA TECHNOLOGY

Sep. 2017 - Sep. 2018

- Awarded entrance scholarship for top performance.
- Top 15% of the class. Detailed list of exams and projects are available here (Link)

VIT University India

BACHELORS IN COMPUTER SCIENCE AND ENGINEERING

Sep. 2013 - Sep. 2017

- Consistently awarded high performing awards in academics
- THESIS: Exploration of Heuristics in IR in Applications of Approximate String Similarity (Link)

Conference Publications

Comparing Static and Contextual Distributional Semantic Models on Intrinsic Tasks: An Evaluation on Mandarin Chinese Datasets

LREC-COLING 2024

- First authored paper with Yan Cong, Emmanuele Chersoni, Yu-Yin Hsu and Alessandro Lenci.
- · Analyzes the performance of static vs. contextualized models on distributional semantic models on Chinese datasets.

Queer In AI: A Case Study in Community-Led Participatory AI

FACCT 2023, PARTICIPATORY WORK WITH QUEER IN AI

- Won the best paper award at FAccT 2023
- · Led the work on conference inclusivity and trans-inclusive publishing

2kenize: Tying Subword Sequences for Chinese Script Conversion

ACL 2020, ARXIV LINK

- First authored paper published in ACL 2020
- Supervised by Dr. Isabelle Augenstein
- Work done on increasing accessibility to Traditional Chinese and Cantonese.
- Developed script conversion methods for converting between Chinese scripts.
- Developed state of the art classifiers for topic classification in Chinese NLP.

Workshop publications, preprints and projects_

Check out my github repository pranav-ust for more projects and resources.

Pranav A · Résumé

Making Conferences Queer Friendly

WIDENING NLP 2021, LINK, WORK PUBLISHED WITH QUEER IN AI

- · Widening NLP 2021
- Outlining best practices for making conferences queer-friendly, which include inclusive designs of registration forms and virtual spaces, strengthening queer diversity and developing trans-inclusive publication workflow.

Learn Languages First and Then Convert: Towards Effective Simplified to Traditional Chinese Conversion

NAACL STUDENT RESEARCH WORKSHOP 2019, NON-ARCHIVAL TRACK

• Version of ACL 2020 paper, where I developed script conversion methods for converting between Chinese scripts.

Alignment Analysis of Sequential Segmentation of Lexicons

ACL STUDENT RESEARCH WORKSHOP 2018, PUBLICATION LINK

- · Work based off undergrad thesis.
- · Retrieving similar cognates in cross lingual applications using subword tokenization and graph similarity
- Published in ACL-SRW 2018

Bit Partitioning Schemes for Multicell Zero-Forcing Coordinated Beamforming

ICIIS 2017, ARXIV LINK

- Awarded best undergrad paper
- Optimization methods developed for bit partitioning in network cells.

Inflo: News Categorization and Keyphrase Extraction in an Aggregation System

ARXIV LINK

• Automatic keyphrase extraction and topic classification for news articles. Developed novel algorithms for implementation.

Exploration of Proximity Heuristics in Length Normalization

arXiv Link

• Exploring heuristics such as length similarity for retrieval systems.

BREAK, MAKE and TAKE: An Information Retrieval Approach

ARXIV LINK

- · Work based off undergrad thesis.
- $\bullet \ \ \text{Work on fast string retrieval methods using subword tokenization and graphical similarity}.$

Keyword Extraction and Classification in Scientific Documents

REPOSITORY LINK

· Usage of SciBERT to identify keyword boundaries and classify them onto scientific terminologies.

Security Analysis of Bitcoin Transactions through Statistical Graph Annotation

REPOSITORY LINK

- Work done for Blockchain course in HKUST
- Developed transaction parsing algorithms. This is used for fraud detection using graphical flow methods.

Volunteer Experience and D&I advocacy_

NAACL 2022

D&I ADVISOR

Leading and advising on diversity and inclusion matters at NAACL 2022

NAACL 2021

SENIOR D&I CHAIR

- Highly prestigious position in a top-tier NLP conference
- Implemented several D&I measures including financial access, D&I awareness programs, established forums for research and affinity group socials, worked on increasing accessibility for conferences.
- Coordinated and helped in organizing various affinity groups including Black in Al, Queer in Al, Masakhane and North Africans in NLP

Queer in Al

CORE ORGANIZER

- · Working on D&I and safety initiatives
- Helped in organizing many socials in top-tier conferences for facilitating discussions and cohort forming

Skills

Proficient in Python, শE√X, Pytorch, Bash Scripting, Git, Cloud Based Systems (AWS and GCP)

Familiar with Research Interests Python, MySQL, C++, PySpark, Data Visualization platforms (Tableau, d3.js)

Natural Language Processing, Ethics in AI, Computer Vision

Awards

Best Paper Award, FAccT 2023 for Queer in AI
 Financial Award, ACL 2020 scholarship for research presentation
 Financial Award, NAACL 2019 scholarship for research presentation
 Financial Award and Travel Grants, ACL 2018 scholarship for research presentation
 Entrance Scholarship, HKUST, for outstanding academic performance
 Best Undergrad Paper, ICIIS for outstanding undergrad presentation
 Best Thesis Award, VIT University, for outstanding thesis
 High GPA awards, VIT University, for outstanding academic performance

Program Committees and Service

2023 Reviewer, Pacific Asia Conference on Language, Information and Computation 2023 2024 Reviewer, LREC-COLING 2024 Organizer, Pacific Asia Conference on Language, Information and Computation 2023 2023 Organizer, Queer in Al Workshop at NAACL 2022 2022 2022 Chair, D&I chair at NAACL 2022 Organizer, Queer in Al Workshop at NAACL 2021 2021 2022 Chair, D&I chair at NAACL 2021 2021 Journal Reviewer, Computer Speech and Language Session Chair, AACL Student Research Workshop 2020 2020 2020 Event Organizer at COLING, D&I in NLP 2020 Organizer, SIGTYP 2020 Mentor, Widening NLP 2020 2020 2020 Organizer, Queer in AI at EMNLP 2020 2020 Organizer, Queer in Al at ACL 2020 Reviewer, NAACL Student Workshop 2019 2019 Reviewer, AACL Student Workshop 2020 2020 2019 Reviewer, ACL Student Workshop 2019