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CS224N: Natural Language Processing with Deep Learning

Stanford / Winter 2023

Final poster session

We thank our sponsors (Hudson River Trading, Forethought AI, Huggingface, ServiceNow, Jane Street, Mem, Apple) for co-sponsoring the poster session!

The poster session was at the Oak Lounge at Tresidder Union. This event was not open to the general public, only to the Stanford community and invited guests. Click [here](#) (project/poster-printing-guidelines-2023.pdf) for a guide on poster printing. The schedule of the event was:

4:30-5pm
Session A Check-in
5:00-6:00pm
Session A
6:00-6:30pm
Break (Session B Check-in)
6:30-7:30pm
Session B



7:30-8:00pm
Break (Session C Check-in)
8:00pm-9:00pm
Session C

Prizes

Congratulations to the following teams, who produced exceptional, prize-winning projects!

Best custom projects

- **GhostWriter: Dynamic Programming and Deep Learning for Lyric Generation.** Niveditha Iyer, Tejas Narayanan, Kiran Bhat.
- **Minimum Generative Pre-trained Transformer with Human Feedback (final-reports/final-report-169935991.pdf).** Yanjia Li.
- **Nano Backpack Language Model on Chinese Characters (final-reports/final-report-169449903.pdf).** Hao Sun.

Best default projects

- **SerBERTus: A SMART Three-Headed BERT Ensemble (final-reports/final-report-169729542.pdf).** Matthew John Hayes.
- **Walk Less and Only Down Smooth Valleys (final-reports/final-report-169505895.pdf).** Julian Edwin Lovett Cooper, Thomas Brink, Quinn Hollister.
- **Pals for PALs: Exploring Extensions to Projected Attention Layers for Sentence-Level Tasks (final-reports/final-report-169739344.pdf).** Lainey Yifei Wang.

TAs choice for best poster

- **GhostWriter: Dynamic Programming and Deep Learning for Lyric Generation.** Niveditha Iyer, Tejas Narayanan, Kiran Bhat.

Sponsor's prize for best poster

- **VoBERTal: Variant Objective BERT Pretraining Approaches with HyperLinks (final-reports/final-report-169640386.pdf).** Yangyi Shen, Joey Ji

Student choice for best poster

- **RAPTOR: Reading, Attending, and Processing Tree-Organized Retrieval for Knowledge-Intensive Tasks.** Parth Sarthi, Aditi Tuli, Shubh Khanna.

Custom Projects

Project name

Authors

Optimizing Encoder for Retrieval via Multi-Vector Late Interaction (final-reports/final-report-168833820.pdf)

Xin Ran Song

Using Named Entity Recognition to Supplement The Ocean Cleanup's Global Beached Plastics Dataset (final-reports/final-report-169142735.pdf)

Stephen J Peng, Mitty Yu, Joe Jamison

Bert-Powered Book Genre Classification (final-reports/final-report-169280003.pdf)

Jessica Xinting Chen, Karen Wang

Dynamic Fed Attention (final-reports/final-report-169307888.pdf)

Amar Venugopal

Automated Basketball Video Captioning (final-reports/final-report-169332292.pdf)

Lucas Andrew Pauker, Beri Kohen Behar

Few-Shot Causal Distillation (final-reports/final-report-169343837.pdf)

Thomas Starshak

Data Generation for NLP Classification Dataset Augmentation: Using Existing LLMs to Improve Dataset Quality (final-reports/final-report-169346062.pdf)

Elliot Kenneth Dauber, Sahit Dendekuri

Automating English Language Proficiency Assessments (final-reports/final-report-169354880.pdf)

Ethan Tejas Allavarpu, Spencer Teal Siegel, Duncan Ross

Hate Speech Detection Using Natural Language Processing (final-reports/final-report-169358304.pdf)

Durga Prasad Malladi, Neha Keshari, Utkarsh Mittal

Statistically-augmented Neural Detection of AI-generated text (final-reports/final-report-169358982.pdf)

Michael Jarek Yan, Jeffrey Heo, Simon Kim

Using Knowledge Graph Embeddings from Biomedical Language Models to Infer Drug Repurposing Candidates for Rare Diseases (final-reports/final-report-169359180.pdf)

Yash Sanjay Patil, John N Wang

Compositional Generalization Based on Semantic Interpretation: Where can Neural Networks Improve? (final-reports/final-report-169361549.pdf)

Carolyn Qu, Rodrigo J Nieto

Performing and Analyzing Named Entity Recognition on Foreign English Contexts (final-reports/final-report-169362676.pdf)

Alex Zhang Shan

Generative Word Embeddings with New Similarity Techniques for Legal Linking (final-reports/final-report-169363450.pdf)

Andres Felipe Suarez, Jared William Azevedo

Guideline for GPT-2: Investigating Model Variants For Different Computational Budgets (final-reports/final-report-169366918.pdf)

Ryan Kang

Enlightened Imagery: Multi-modal Image Captioning with Transformer-Based unified architecture (final-reports/final-report-169368209.pdf)

Prashan Malintha Somapala

Adapting the Contrast-Consistent Search Method to Multiclass Classification (final-reports/final-report-169368651.pdf)

Santiago Hernandez, Tomas Pfeffer, Diego Zancaneli

Universal Tabular Data Generator with Large Language Models (final-reports/final-report-169369314.pdf)

Julian Chu

Language Modelling using Latent Diffusion Models (final-reports/final-report-169374211.pdf)

Sebastian Charmot, Ryan Lok Him Po

Knowing What You Do Not Know: Investigating Large Language Models for Out-of-Domain Intent Classification (final-reports/final-report-169374438.pdf)

Claire Tang

ASKIT: Search and Ask Model (final-reports/final-report-169374570.pdf)

Adam C Klein, Matthew Jordan Villescas

DeepLyrics: GPT2 for lyrics generation with finetuning and prompting techniques (final-reports/final-report-169374910.pdf)

Xiaoli Yang, Li Tian

Novel Data Augmentation for resource constrained Image captioning (final-reports/final-report-169375891.pdf)

Parth Nilesh Dodhia, Anirudh Sriram

SuperHF: Supervised Finetuning from Human Feedback (final-reports/final-report-169376811.pdf)

Gabriel Mugisa Mukobi, Wilder Dwight Abraham Fulford, Peter Samuel Chatain

Looking Under the Hood of DetectGPT (final-reports/final-report-169403912.pdf)

Max Du, Kaichen Yang, Ryan Lian

AV-HuBERT with Multi-Resolution Attention (final-reports/final-report-169407002.pdf)

Paul Thomas Calamia, Jacob Donley

Multi-Modal Model for Speech to Text Entity (final-reports/final-report-169433359.pdf)

Xiang Jiang

Abstractive Summarization of Legal Text Corpora Using Transfer Learning (final-reports/final-report-169444039.pdf)

Alexander Antonio Alvarado-Barahona, Michael Zhang

Haiku Generation with Large Language Models (final-reports/final-report-169444285.pdf)

Brennan Emily Megregian, Victoria Larisa DiMelis

Nano Backpack Language Model on Chinese Characters (final-reports/final-report-169449903.pdf)

Hao Sun

Legal-SBERT: Creating a Sentence Transformer for the Legal Domain and Generating Data (final-reports/final-report-169451673.pdf)

Jayendra Singh Chauhan

Building a Natural Language Chess Engine with Pretraining and Instruction Fine-Tuning (final-reports/final-report-169466939.pdf)

Bowen Jiang

ConTAXt Retrieval for Long-Form Question-Answering (final-reports/final-report-169484333.pdf)

Winston Shum, Usman Iqbal Hanif, Will Frank Roberts

Enabling Interpretable Histopathology Representation Learning via Multimodal Language Guided Self-Supervision (final-reports/final-report-169485103.pdf)

Ekin Yokhan Tiu, Tom Thuc Ky Nguyen

Question Span Extraction from Chats of Instant Messaging Platforms (final-reports/final-report-169486048.pdf)

Abhishek Kumar

Paper Trading From Sentiment Analysis on Twitter and Reddit Posts (final-reports/final-report-169488138.pdf)

Chinmaya Mohan Andukuri, Eden Y Wang, Shobha Dasari

Generating Recipe Ingredients and Instructions with Controlled Text Generation (final-reports/final-report-169488965.pdf)

Kerrie Wu, Justine Breuch, Ben Alexander Randoing

Are Attention Flows All You Need? (final-reports/final-report-169491742.pdf)

Tomas Mika Bosschieter

Next-Song Recommendations for Spotify Playlists Using GPT-2 and T5 (final-reports/final-report-169493994.pdf)

Janice Yeuhthong Teoh, Carrie Jiayi Chen

Semantic Code Search (final-reports/final-report-169494435.pdf)

Dinesh Rathinasamy Thangavel, Suhit Anand Pathak

Multimodal Patient Evaluation for Depression and Anxiety (final-reports/final-report-169498051.pdf)

Ally Nakamura, Roshan Swaroop

Classifying Partisan Bias in News Articles: Leveraging an Understanding of Political Language and Article Structure (final-reports/final-report-169502805.pdf)

Edoardo Yin, Emily Jin

AI Can Look Up StackOverflow too: Retrieval-Augmented Code Generation (final-reports/final-report-169502968.pdf)

Shreyas Vinayakumar, Minh Tue Vo Thanh, Swagata Ashwani

Deep Learning Approach to Predicting Success of Medical Crowdfunding Campaigns (final-reports/final-report-169503583.pdf)

Advait Avinash Patil

Semantic Understanding of Genius Music Annotations (final-reports/final-report-169503842.pdf)

Wesley Tjangnaka, Brent Ju, Andrew Victor Li

Examining Misinformation via Search Directives (final-reports/final-report-169504658.pdf)

Amy Dunphy, Michal Maciej Adamkiewicz

Making the Most of Your Data: Few Shot Learning for Automated Essay Scoring (final-reports/final-report-169504920.pdf)

Abel Philip John

Ambiguity Resolution in Conversational Question Answering through Minimal Question Identification (final-reports/final-report-169506096.pdf)

Sahil Kulkarni

Looking Outside the Context Window: In-Context Learning with Up to Hundreds of Examples (final-reports/final-report-169506299.pdf)

Varun Shenoy, Linden Sky Li

Few-shot Classification of Disaster-related Tweets (final-reports/final-report-169506405.pdf)

Jubayer Ibn Hamid, Jitendra Nath Pandey, Sheikh Rifayet Daiyan Srijon

BERT-BERT Causal Emotion Entailment - Linguistic Evidence of False Confession (final-reports/final-report-169506582.pdf)

Yan Min

Are Distilled Models Just Deep-Sea Octopi? Probing Linguistic Representations of Distillation-Finetuned Models (final-reports/final-report-169506869.pdf)

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CodeSage: A Generative Approach to Improving Code Quality (final-reports/final-report-169507264.pdf)

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RDF Triple-Text-Story: A Integrated Workflow for Controllable Short Story Generation (final-reports/final-report-169507684.pdf)

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Allison Sandoval Casasola, Maximilien Angelo Munz Cura

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Unpacking Social Biases: An Analysis of Sense Embeddings Using the Backpack Model (final-reports/final-report-169508435.pdf)

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Human Writing is as Uniform as Machine Writing (final-reports/final-report-169508494.pdf)

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GhostWriter: Dynamic Programming and Deep Learning for Lyric Generation

Kiran Vincent Bhat, Niveditha Subramanyam Iyer, Tejas Narayanan

Multimodal Transformer-Based Lyric Generation from MIDI and Text Data (final-reports/final-report-169508596.pdf)

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Investigating Methods of Using Context to Augment pre-trained Language Models for Question Answering (final-reports/final-report-169508723.pdf)

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Engagement-based response generation for open-domain dialogue (final-reports/final-report-169508835.pdf)

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Style EmuLoRA in Text Generation: A Case Study with Joe Biden and Donald Trump (final-reports/final-report-169508844.pdf)

Luke Joseph Mann, Ori Spector

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Andrew Hyungmin Lee

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Alexis Catherine Echano, Minh Chau Mai

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Max Atsunobu Vandervelden, Rohan Kumar Cherivirala

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Evelyn Hejin Choi, Karsen Lee Wahal, Alice Zhaoyi Chen

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Brock Grassy

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Filtering Out Unreliable Language Model Outputs Using Contrast-Consistent Search (final-reports/final-report-169726484.pdf)

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MEDI-BERPT: A Novel Multitask Approach to Streamlining Chinese Healthcare (final-reports/final-report-169727160.pdf)

Sunny Sun, Bi Tian Yuan

Semantic-Augment: Augmenting the Semantic Space of Transformers Improves Generalization (final-reports/final-report-169728160.pdf)

Emirhan Kurtulus

Steering Natural Language Generation by Optimizing Vector-to-Cluster Distance (final-reports/final-report-169728239.pdf)

Aniketh Nandakumar Iyengar, Vrushank Yatish Gunjur

Adapting to Word Shifts: Teaching LLMs the Urban Dictionary (final-reports/final-report-169729538.pdf)

Justin Wu, Sheryl Hsu

Adaptation, Sensitivity, and Introspection: Investigating the Capabilities of LLMs as Hypernetworks (final-reports/final-report-169729678.pdf)

Joseph Thomas Guman, Joey Coleman O'Brien, Christopher Lawrence Marcelino Pondoc

IBOX: An Interactive Toolbox for Large Language Models (final-reports/final-report-169729816.pdf)

Cody Ho, Matias Shundi

Argue Better: Using Large Language Models to Generate Better Examples for Ineffective Persuasive Essay Arguments (final-reports/final-report-169732795.pdf)

Anjali Ragupathi, Ashley Zhang

DeepRhymes: Efficient End-to-end Conditional Rap Lyrics Generation (final-reports/final-report-169795327.pdf)

Bessie Zhang, Catherine Kung, Ivan Villa-Renteria

Applying Natural Language Processing in Answering Multiple-Choice Questions for Assessing Child/Youth and Adults Needs and Strengths (CANS®/ANSA) (final-reports/final-report-169800771.pdf)

Kalikant Ganeshchandra Jha, Bohdan Metchko Junior

Leveraging Patient Portal Messages to Predict Emergency Department Visits (final-reports/final-report-169817823.pdf)

Jasmine Selin Bilir, Tran Le

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Automatic Speech Recognition Error Correction on ICU Clinical Narration Dataset (final-reports/final-report-169874129.pdf)

Zhuoyi Huang, Han Bai, Adam Sun

Summarizing Charts and Graphs with Context (final-reports/final-report-169878560.pdf)

Nandita S Naik, Akankshita Dash

Longformer-based Automated Writing Assessment for English Language Learners (final-reports/final-report-169883524.pdf)

Peiqi Zhang

How well can Hippos learn? A Novel Foray into the In-Context Learning Capabilities of H3 (final-reports/final-report-169891052.pdf)

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Multi Distribution Dense Information Retrieval (final-reports/final-report-169896152.pdf)

Soumya Chatterjee

Data Augmentation for Low-resourced Language Modeling (final-reports/final-report-169899078.pdf)

Shubo Yang, Wanyue Zhai

MOPS: Memory Occupancy and Performance Surveying when using Late-Stage Hard Parameter Sharing for BERT Multitask Learning (final-reports/final-report-169901941.pdf)

Callum Jan Burgess, Mark Peter Bechthold

Multi-Task Learning BERT Model with Task-Specific Decoders (final-reports/final-report-169905995.pdf)

Zhen Li

Exploring the Effect of Semantic Similarity on Model Generalization (final-reports/final-report-169930031.pdf)

Dustin Ryan Zubke, Hong Ju Jeon

Minimum Generative Pre-trained Transformer with Human Feedback (final-reports/final-report-169935991.pdf)

Yanjia Li

Calibrated Contrast-Consistent Search (final-reports/final-report-169953466.pdf)

Holly McCann, Lucas Tao, Felipe Calero Forero

More Informative Relative Position Encoding for Table-to-Text Generation (final-reports/final-report-169954269.pdf)

Yuan Wang

Efficient Two-stage Approach for Long Document Summarization (final-reports/final-report-169955245.pdf)

Fengmin Tang, Jialuo Yuan, Benson Zu

Predicting Emergency Department Disposition from Radiology Reports (final-reports/final-report-169962747.pdf)

Karen Garcia Mesa, Andy Zhang

Audio-Text Cross-Modal Retrieval (final-reports/final-report-169962799.pdf)

Vladimir Tourbabin, Zamir Ben-Hur

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Betty Xiong

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Rishi Agarwal, Pratyush Agarwal, Ali Rehan

Finetuning minBERT Model for Multiple Downstream Tasks (final-reports/final-report-169968274.pdf)

Yuan Wang

Today Years Old: Adapting Language Models to Word Shifts (final-reports/final-report-169974300.pdf)

Jason Jin Chen, Zachary Xi, Olivia Y Lee

Rationale Belief Aggregation for Self-Verified Reasoning (final-reports/final-report-169977748.pdf)

Vaish Shrivastava

Multi-Task Zero-shot modeling with test Domain Shift: an exploration of sampling and fine-tuning techniques on DistilGPT-2 and BIG-bench (final-reports/final-report-169990431.pdf)

Lara Malinov

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Abhy Ravi Devalapura, Logan Mondal Bhamidipaty

Does Learning Syntax Help Models Learn Language? (final-reports/final-report-170018026.pdf)

Lian Wang

TAKG: Importance-augmented Knowledge Graphs (final-reports/final-report-170020170.pdf)

Josh Cho

Transformer-based solutions using transfer learning and instruction fine-tuning conditional on context input data for downstream NLP tasks in the domain of job application pain points (final-reports/final-report-170026140.pdf)

Aris Aristorenas

Controlling Toxicity using Backpacks (final-reports/final-report-170028699.pdf)

Advaya Gupta, Apoorva Dixit, Aditya Ashwini Agrawal

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Yunan Li

BabyLLM Challenge: Encouraging Tree-Structured Calculations in Transformers (final-reports/final-report-170033559.pdf)

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Ana Carolina Queiroz

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Jennifer A Wu, Shun Yamaya

Reinforcement Learning for Language Models (final-reports/final-report-170040536.pdf)

Wanqiao Xu, Paul Dupenloup, Gary Lurui Qian

Measuring Mission Deviation in California Non-Profit Hospitals (final-reports/final-report-170043982.pdf)

Nova Josephine Bradford, Pranay Agrawal, Cesar Augusto Portocarrero Rodriguez

Text Classification with language models and graph structures (final-reports/final-report-170044583.pdf)

Jian Xu, Fang Shu

Probing Frozen NL Models for Alignment with Human Reasoning (final-reports/final-report-170045941.pdf)

Clara Greene MacAvoy, Claire Cheng

Contextual Question Answering using variations of BiDAF and QANet (final-reports/final-report-170047474.pdf)

Achilleas Martinis

DetectChatGPT: Black-Box Zero-Shot Detection of LLM-Generated Text (final-reports/final-report-170049587.pdf)

Julia Park

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Armaan Rashid

Tweet Sentiment Analysis to Predict Stock Market (final-reports/final-report-170049613.pdf)

Christian Luther Palomo

Interpreting Transformers through Activation Sparsity (final-reports/final-report-170049755.pdf)

Quinn Isaiah Smalling, Dmitri Michelangelo Saberi

Generating Molecules from Natural Language with Multimodal Contrastive Pre-Training (final-reports/final-report-170049900.pdf)

Romain Lacombe, Kateryna Pistunova, David Ludeke

Exploring the Logical and Mathematical Capabilities of the BERT Embedding Space using Contrastive Learning (final-reports/final-report-170498296.pdf)

Mona Anvari

Default Projects

Project name

Authors

Unifying Different NLP Tasks with A Question-answering Model (final-reports/final-report-169192000.pdf)

Polycarpos Yiorkadjis, Yiyuan Wang

Extending the BERT Model to a Multitask Loss Function Using Gradient Surgery (final-reports/final-report-169262140.pdf)

Ali Lasemi

Finetuning minBERT for Downstream Tasks (final-reports/final-report-169262874.pdf)

Pete Rushton, Tyler Lee Nichols

Default Project: minBERT and Downstream Tasks (final-reports/final-report-169309301.pdf)

Rachel Yu, Mabel Jiang

BERT's Multitask Learning Adventures (final-reports/final-report-169311062.pdf)

Yipeng Liu, Jonathan Richard Larkin

Adjusting Dropout in Contrastive Learning of Sentence Embeddings (final-reports/final-report-169313796.pdf)

Guillermo Frontera Sanchez, Maurice Andre Georgi

minBERT and Downstream Tasks (final-reports/final-report-169316220.pdf)

Regina Li Wang, Reva Parag Agashe, Jennie Jaeyoung Chung

minBERT and Downstream Tasks (final-reports/final-report-169319223.pdf)

Jason Alexander Chan

Enhancing Multi-Task Text Classification with Contrastive Learning and Dataset Augmentation in BERT-like Models (final-reports/final-report-169320493.pdf)

Phillip Yao-Lakaschus

PALs of Alto: Comparing Adapter Modules and Projected Attention Layers for Multitask Learning (final-reports/final-report-169331001.pdf)

Jonah Gordon Cader

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swissBERT: A Ready-to-Use Multitask Transformer (final-reports/final-report-169334568.pdf)

Yixin Liu, Tom Shen, Violet Yao

Improved BERT embeddings through Negative Rank Loss (final-reports/final-report-169346237.pdf)

Aarya Cyril Mecwan, Torstein Orbeck Eliassen, Natalie V Bishay

Exploring Strategies for Improved Performance in Multi-Task Learning with Pretrained-BERT (final-reports/final-report-169351230.pdf)

Xiaolei Shi

Is training all you need? Exploring further pretraining and multi-task finetuning on BERT (final-reports/final-report-169354456.pdf)

Richard Liu, Umar Dizon Maniku

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