Ram Kadiyala

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Education

Masters in Machine Learning — **Aug 2022 - May 2024**
University of Maryland, College Park — *College Park, MD*

Graduate Certificate in Data Science — **Aug 2022 - May 2023**
University of Maryland, College Park — *College Park, MD*

Experience

Research Assistant | **RVR&JCCE** — **Jan 2024 – May 2024**
- Built ensembles with LLMs for classifying social media texts for various medical research tasks.
- Compared results from various approches, published findings in ACL.

Research Assistant | **VVIT** — **Aug 2022 – Jan 2024**
- Contributed to pre-processing a mix of geographically diverse retina image datasets.
- Built models for identifying optical disk and optical cup regions for accurate diagnosis of glaucoma.

Research Assistant | **RVR&JCCE** — **Aug 2022 – Jan 2023**
- Assisted in building models for bias detection / clickbait in Telugu news articles and newspapers.
- Contributed to building models to identify the reliability of each of the news sources for each domain.

ML & IoT Intern | **Bolt IoT** — **Feb 2021 – Apr 2021**
- Contributed to Building ML Models a smart humidity, lighting, and temperature management project.
- Integrated the models with programmable IoT devices for automation.

Founder | **Black Ops Esports** — **Nov 2018 - Apr 2022**
- Established and led an E-sports organization for over 3 years, mentoring teams across 12 games.
- Built Image-Time Series models in the latter years for making better strategies in Battle Royale games.

Publications

Multi-class Emotion detection on highly imbalanced data. — **ACL 2023**
- Built models for multi-class emotion detection from user essays on highly imbalanced data using RoBERTa-large.
- Finished 1st out of 121 teams : WASSA 2023 - Task 1.

Word-Level Text Boundary Detection in Partially machine generated texts. — **NAACL 2024**
- Built models for detecting text boundary in partially AI generated, 30% improvement over proprietary systems.
- Finished 1st on seen generators and 6th on unseen generators out of 308 teams : SemEval 2024 Task 8.

Can LLMs Understand Social Media Texts Without Context ? — **Withdrawn**
- Built models to classify threat level and target groups in low-resource code-mixed languages social media texts.
- Finetuned various models : LLAMA-2, Mistral-v2, etc.. Compared with proprietary models : GPT4, Claude Opus

Ensembles of Transformers and LLMs for Medical Text Classification. — **ACL 2024**
- Built LLAMA3-Bart-Large ensemble models for classification of social media texts for medical research tasks.
- Finished in top 3 in all tasks : SMM4H 2024 Task 3, 5 and 6.

Cross-lingual emotion detection through Large Language Models. — **ACL 2024**
- Built models using LLMs to evaluate effectiveness in sentiment analysis cross-lingually.
- Finished 1st out of 72 teams with a large lead : WASSA 2024 - Task 2.

Can Large Language Models Serve as Reliable Psychometric Analysts ? (Ongoing) — **ACL 2024**
- Building models to predict personality and psychological traits of users through their texts history.

Technical Skills

Languages: Python, C, HTML/CSS, JavaScript, SQL, R, MATLAB, LaTeX, Markdown
Technical: AWS, Google Cloud, Prompt Engineering, Gradio, SEO, UX Design, Open AI API,

Co-curricular achievements

International Mathematics Olympiad 2015 : Rank 283 out of over 700K
International Mathematics Olympiad 2014 : Rank 183 out of over 650K
International Mathematics Olympiad 2013 : Rank 389 out of over 650K
International Mathematics Olympiad 2012 : Rank 110 out of over 650K