Sanjayan Pradeep Kumar Sreekala

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Applied AI Researcher — Kaggle Competitions Expert — LLM Research

Skills: Python, LLMs, ML

Education

University of California San Diego Sept 2022 - June 2024
Master of Science, Computer Science & Engineering, specialization plan: AI/ML *San Diego, California*
Relevant Courses: Probabilistic Reasoning, Reinforcement Learning, Deep Generative Models, Recommender Systems

National Institute of Technology Karnataka May 2015 - May 2019
Bachelor of Technology, Electrical & Electronics Engineering *Karnataka, India*

Experience

Applied Researcher @ Knowledge Extraction for Search Apr 2024 – Now
eBay *San Jose, California*

- Built & deployed Generative Extraction Models capable of 1000s of TPS with Small Language Models (1B) to replace NER and dictionary based methods
- Built synthetic datasets with Multi-Modal open source Large Language Models to evaluate services and train small models
- Automated Prompt Engineering Flows with Agents/Workflows increasing iteration velocity

AI Applied Research Intern Jun 2023 – Sep 2023
eBay *San Jose, California*

- Finetuned BERT Models with PyTorch and Huggingface for data extraction from unstructured text, enhancing search coverage.
- Explored generative models and LLMs for advanced information extraction and open-source/commercial LLMs for efficient synthetic dataset creation.

ASIC Digital Design Engineer Jul 2019 – Jul 2022
Texas Instruments *Bangalore, India*

- ASIC design and Physical Design for Power Management ICs - Multiphase Control Solutions

Publications

- J. Shriram and S. P. Kumar Sreekala, "ZINify: Transforming Research Papers into Engaging Zines with Large Language Models," in *Adjunct Proceedings of the 36th Annual ACM Symposium on User Interface Software and Technology (UIST '23 Adjunct)*, as Extended Abstract, 2023, doi: 10.1145/3586182.3625118.
- S. K. G. Manikonda, J. Santhosh, S. P. Kumar Sreekala, S. Gangwani, and D. N. Gaonkar, "Power Quality Event Classification Using Long Short-Term Memory Networks," in *Proceedings of the 2019 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)*, 2019, pp. 1-5, doi: 10.1109/DISCOVER47552.2019.9008009.

Relevant Awards and Recognitions

1st Place | *eBay 2022 University ML Challenge* Jan 2023

- 1st out of 591 teams

Best Paper Award | *IEEE International DISCOVER conference 2019* Aug 2019

- Power Quality Event Classification Using Long Short-Term Memory Networks

Silver Medal | *Kaggle "Mercari Price Suggestion" Challenge* Feb 2018

- 98th out of 2380 teams

Bronze Medal | *Kaggle "Toxic Comment Classification" Challenge* Mar 2018

- 312th out of 4539 teams