

Sanjayan Pradeep Kumar Sreekala

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Information Extraction — LLM Research — Multimodal AI — ASIC Design

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 1 (SE3) @ Knowledge Extraction for Search

Apr 2024 – Present

eBay

San Jose, California

- Drove adoption of **small multimodal model (SLM)-based generative information extraction** at scale (100M+ listings/month), designing and building pipelines that improve on legacy NER and dictionary-based methods.
- Built **multimodal agents and workflow pipelines** that generate synthetic training and evaluation data using open-source large language & multimodal models (LLMs, LMMs) to accelerate data and model iteration.
- Developed **deep learning models** (classifiers, confidence scoring, bounding-box detection) to augment the LLM/SLM information extraction pipeline, improving extraction accuracy and field coverage.

ASIC Digital Design Engineer

Jul 2019 – Jul 2022

Texas Instruments

Bangalore, India

- **Physical Design** for **4 taped-out** Power Management ICs: timing closure (STA), power, and EM/IR reliability signoff.
- **RTL design** of area-efficient custom floating-point multipliers and a **System ALU** achieving 40% area reduction vs. comparable Cadence IP; plus RTL for PMBus protocol and GPIO control IP.
- Automated Physical Design flows in Python/TCL, cutting tape-out time by 2x.

PUBLICATIONS

- C. Pradeep and S. P. Kumar Sreekala, "Evaluator-Guided LLM Distillation for Embodied Agent Decision-Making," in **NeurIPS 2025 Workshop on Foundation Models Meet Embodied Agents (FMEA)**, 2025.
- 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)**, 2023.
- 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 DISCOVER**, 2019.

RELEVANT AWARDS AND RECOGNITIONS

1st Place | NeurIPS 2025 EAI Challenge

Dec 2025

- Winner of the **Embodied Agent** Interface Challenge (Team: AxisTilted2) at the FMEA Workshop.

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

Kaggle Competitions Expert | Silver (Mercari) & Bronze (Toxic Comment) Medals

2018

- Silver Medal: Top 5% (98th/2380 teams) | Bronze Medal: Top 7% (312th/4539 teams)