

Contact

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Top Skills

Multi-agent Systems
genAI
Programmatic Advertising

Prashanth Duggirala

Senior Data Scientist | AI in general, NLP in particular
Hyderabad, Telangana, India

Summary

Senior Data Scientist with 5+ years of experience delivering scalable, end-to-end machine learning# solutions. Proven track record of leading the development of cutting-edge AI systems, including# Agents, RAG and LLMs. Expert in building and deploying# foundational ML pipelines in dynamic, cross-functional environments, with a focus on driving# business impact and setting high standards for technical excellence.#

Experience

Leoforce

4 years 6 months

Senior Data Scientist

December 2024 - Present (1 year)

Working on Agentic AI enabled chat interfaces for recruiting process automation

Data Scientist

June 2021 - December 2024 (3 years 7 months)

Raleigh, North Carolina, United States

Parsing highly unstructured text using custom, domain-adapted architectures with transformers at their core

University of California, Davis

1 year 8 months

Graduate Student Researcher

March 2020 - May 2021 (1 year 3 months)

Developed deep stacked autoencoder based networks and progressive training techniques for unified representation learning from multiple modalities of data, specifically images and time-series data for applications like multi-modal transport and synthetic data generation in the health domain.

Advisor: Prof. Thomas Strohmmer

Graduate Teaching Assistant

January 2020 - March 2020 (3 months)

Taught Computer Networks, Discrete Math and Organic Chemistry

Research Assistant

October 2019 - March 2020 (6 months)

Visual Saliency Prediction and autism spectrum disorder (ASD) diagnosis in children: Developed models to recognize gaze patterns and differences between Autistic and typically developed individuals using computer vision and eyetracking technologies.

- Co-authored and published our research in Signal Processing: Image Communication journal, vol 94.

Advisors: Prof. Sen-Ching Cheung and Prof. Chen-Nee Chuah

LVPEI Center for Innovation

Machine Learning Intern/Research Fellow

May 2018 - June 2019 (1 year 2 months)

Hyderabad Area, India

Eye Image Synthesis using Generative Adversarial Networks: Researched and developed models to generate synthetic eye images for data augmentation using Deep Convolutional GANs and analysed the performance of the DCGAN using a custom metric based on categorical cross entropy loss produced on a pre-trained classifier to quantify the realness of the generated data.

- Video based Gaze estimation of infants: Development of Convolutional Neural Network based ML and 3D head pose estimation based on facial landmarks models for unconstrained non-intrusive gaze tracking of infants through a pediatric perimeter device.

Indian Institute of Information Technology Design & Manufacturing
Kancheepuram

8 months

Graduate Teaching Assistant

January 2019 - May 2019 (5 months)

With Prof. Ganapathi Panda for COM510 Machine Learning. I am responsible for curating course material, clarifying doubts on ML algorithms/techniques and the theory/logic behind the assignments along with conducting and evaluating assignments/examinations.

Graduate Teaching Assistant

January 2019 - May 2019 (5 months)

With Prof. Munesh Singh for COM212 Database Systems. Responsible for organizing and managing weekly lab sessions, clarifying doubts on different coding techniques and the theory/logic behind the course assignments along with evaluating projects.

Graduate Teaching Assistant

October 2018 - December 2018 (3 months)

With Prof. Masilamani V for COM207 Programming and Data Structures.

OSI Systems

Summer Intern

May 2016 - July 2016 (3 months)

Hyderabad Area, India

- Developed efficient text processing algorithms for baggage flow control logs using AWK and Shell scripting.
- Achieved a 100x increase in processing efficiencies by transitioning from legacy VB Script methods.

Education

University of California, Davis

Master of Science - MS, Computer Science · (2019 - 2021)

Indian Institute of Information Technology Design & Manufacturing
Kancheepuram

B.Tech/M.Tech Dual Degree, Computer Engineering · (2014 - 2019)