

Harish Sista (He/Him)

No work authorization required

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SUMMARY

Ph.D. Candidate researching in ML and NLP with 7+ years of experience working with ML models, Big Data, and Cloud Computing platforms and 2+ years of experience working in a professional environment. Spearheaded an Evidence Extraction and Fact Verification model using Prompt Engineering and tested it with various LLMs. Invented a Black Box Optimization model for online hyperparameter fine-tuning, significantly enhancing model performance in real-time applications.

SKILLS

Programming Languages	AI Tools	LLMs	Data Engineering	Cloud Platforms	Research Interests
<ul style="list-style-type: none">• Python• SQL• C++• Java• Swift• HTML	<ul style="list-style-type: none">• PyTorch• HuggingFace• TensorFlow• AutoML• SciKitlearn• NumPy	<ul style="list-style-type: none">• GPT• LLAMA• BLOOM• BERT	<ul style="list-style-type: none">• AWS EC2• FireWorks AI• Lightning AI• Data Pipelines• Data Augmentation	<ul style="list-style-type: none">• AWS• Google Cloud• GIT• Heroku	<ul style="list-style-type: none">• NLP• Generative AI• AutoML• Data Science

EDUCATION

Ph.D. in Machine Learning (Computer Engineering department) Stevens Institute of Technology, Hoboken	01/2018 – Present
M.Eng. in Software Engineering (Electrical Engineering department) Stevens Institute of Technology, Hoboken	01/2014 – 12/2015
B.Eng. in Electronics and Communication Engineering M.V.S.R Engineering College, Hyderabad, TG, India	08/2009 – 05/2013

RESEARCH EXPERIENCE

Infinity Lab , Stevens Institute of Technology – Hoboken, NJ	01/2018 – Present
<ul style="list-style-type: none">• Work with various LLMs to address the challenges of Fact Verification using Prompt Engineering, Text Generation, Classification and Evidence Extraction Tasks.• Built various Python Libraries using Multiprocessing to work efficiently with big datasets.• Surveyed and implemented various Attention Networks, DNNs and Generative Models to perform NLP tasks of Data Extraction, Modeling, Regression, Ranking, and Classification.• Collaborated in creating various Scientific, social media, and Misinformation Datasets.• Developed an AI based iOS application to perform MoCA test for early detection of Alzheimer's.	

WORK EXPERIENCE

Research Assistant , Stevens Institute of Technology – Hoboken, NJ	10/2018 – 09/2019
<ul style="list-style-type: none">• Created a chemistry literature dataset for the purpose of similarity search with search queries.• Preprocessed the dataset, using PDF conversion tools and NLTK library to remove the noise.• Produced a Novel Generative Ranking Model using Topic Modeling and KeyPhrase analysis, to extract most relevant papers related to the search query.	
AI Engineer/iOS Developer , Fresh Digital Group – NY, NY	07/2016 – 06/2017
<ul style="list-style-type: none">• Collaborated with Content Writers and Creative Team to individually design and deploy ~30 chat applications for Amazon-Alexa which won appreciation from tech newsletters.• Developed various iOS, iMessage and tvOS applications in conjunction with several teams.• Helped company obtain a preferred partnership with Amazon-Alexa and launching partnership with Microsoft-Cortana.	

CERTIFICATIONS

Databases and SQL for Data Science with Python – IBM, Coursera	09/09/2024
Foundations of Objective-C App Development – University of California, Irvine	04/04/2016