

SRAVANAKUMAR SATHISH

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EDUCATION

MASTERS IN DATA SCIENCE, ANALYTICS AND ENGINEERING

August 2024 - Present

Ira A. Fulton Schools of Engineering, Arizona State University

Tempe, Arizona

Relevant coursework: Data Mining, AI&ML, Machine Vision & Pattern Recognition, Advanced DBMS, Natural Language Processing, Knowledge Representation.

B-TECH, ELECTRONICS AND COMPUTER ENGINEERING

June 2019 - August 2023

Vellore Institute of Technology

Chennai, India

Relevant coursework: Data Structures and Algorithms, AI & ML, Computer Vision, Internet of Things, Network Security

TECHNICAL SKILLS

Framework & Visualization tools: Power BI, Stream-Lit, Gradio, React, Chain-Lit

Database and Cloud Platform: Azure, Google Cloud Platform, MySQL, Azure DevOps

Data Science & Machine Learning: Python, NLP, Generative AI, Prompt Engineering, GROQ, SLM, LLM, Data Mining, Pyspark, Beautiful Soup, Tensor flow, Pytorch, Keras, Open CV, Yolo, GAN, Causal Discovery and Inferencing.

PROFESSIONAL EXPERIENCE

Research Aide

December 2024 - Present

Arizona State University

Phoenix, Arizona

- Working on Causal Graph Learning and Inferencing, Causal Discovery in Large Language Models and Knowledge Representation.

Graduate Service Assistant [Grader]

January 2025 - Present

Arizona State University

Phoenix, Arizona

Associate Technology Consultant

January 2023 - June 2024

Price Waterhouse Coopers LLP

Bangalore, India

- Crafted a Virtual Assistant for e-commerce company using generative AI to ease the customer's interaction with the company's page.
- Implemented Small Language Models instead of LLM's to improve the overall performance resulting in high accuracy.
- Presented findings at the company related to GROQ, receiving appreciation from director and manager.

Data Science Intern

September 2021 - October 2021

Atsuya Technologies

Chennai, India

- Designed an integrated machine learning and their underlying architecture through a Mobile application for a Government Public Sector Company.
- Gained experience with Android Studio, incorporating mobile development into the project.

CERTIFICATIONS

- [Microsoft certified Azure AI engineer Associate](#)

January 2024

- Coursera/Udemy courses based on Artificial Intelligence and Machine Learning, Deep Learning.

CONFERENCE AND PUBLICATIONS

[C.1] Sravanakumar Sathish, et al. (2024). Music Recommendation based on emotion detection using facial expressions and speech recognition. In ICETET 2024, on 17/04/2024, Chennai

PROJECTS

Automating Google Services with GCP

April 2024 - July 2024

Tools used - Google Cloud Platform (GCP) & OpenAI

- Developed an integrated automation solution for Gmail, YouTube, and Google Calendar, streamlining user interactions and task management.
- Engineered a real-time and predictive Weather API, enabling accurate current and future weather forecasts.
- Built a comprehensive Calendar API facilitating scheduling and coordination of meetings with multiple participants.

LPU GROQ [Language processing unit]

June 2024 - July 2024

Tools Used - LPU, GROQ, Embeddings, Open AI

- Designed and implemented a custom Language Processing Unit (LPU), achieving 10x performance gains over traditional GPUs in text-based model processing.
- Integrated LPU with GROQ technology to accelerate Large Language Model (LLM) inference.
- Developed lightweight language models optimized for efficient deployment on mobile and edge devices.

Portable Device for Stock Prediction

June 2022

Tools used - Python, Yfinance, IOT, Streamlit

- Developed a portable, real-time stock prediction system using Dense LSTM models.
- Achieved over 80% prediction accuracy by effectively modeling market trends.
- Applied Dense layers for output refinement and dynamic result generation.