THARUN SURESH

San Diego, California | (408) 507-8129 | thsuresh@ucsd.edu | https://www.linkedin.com/in/tharun-suresh | Google Scholar

EDUCATION

Master of Science in Business Analytics, *GPA: 3.91*   06/2024
University of California, San Diego, CA
- **Acquired Skills**: Recommendation Systems, Machine Learning, Customer Insights, Data Wrangling

Master of Technology in Computer Science, *GPA: 3.97*   09/2022
IIIT-Delhi, New Delhi, India
- **Acquired Skills**: Data Structures & Algorithms, Deep Learning, Natural Language Processing, Cloud Computing

EXPERIENCE

Founding Machine Learning Engineer, Visnet AI, Hyderabad, India   02/2023 – 07/2023
Early-stage startup in AI as a Service (AIaaS) space catering to global customers
- Built real-time streaming pipeline using Python, Pytorch, **Amazon Elastic Kubernetes Service** (AWS EKS) and **Simple Storage Service** (AWS S3) achieving an optimized inference latency of **0.6 seconds/image**
- Decoupled segmentation metadata from images with React, Nodejs and Python by which form-data load size in a REST API request was **reduced by 99%**
- Performed **code & system design reviews** for new customer projects by serving as a technical mentor to an intern

Data Scientist Intern, Aptagrim, Hyderabad, India   10/2022 - 12/2022
- Developed a **batch inference machine learning pipeline** using Python and MySQL, resulting in a **100% improvement** in betting outcomes for horse races
- Implemented an **end-to-end web app** using Python and Flask to perform classification, detection and segmentation tasks on video input at **30 frames/second**

Software Engineer, Citigroup, Chennai, India   07/2017 - 07/2020
- Lead the design and development of a **microservice** that unifies cache across **20+ low-latency applications** using Sybase DB (SQL), Gemfire Cache and Spring Boot ensuring reliability, consistency and compliance
- Developed **automated batch processing** of failed trades with Java, Java Swing and SQL significantly reducing manual re-booking efforts from **3 hours to 10 minutes**
- Transformed customer data views with web storage using HTML and Jquery reducing web requests **from 50 to 1**
- Adhered to the Agile model of **Software Development Life Cycle (SDLC)** & minimum development standards, achieving **unit test coverage of 90%** with **continuous integration and deployment** (CI/CD)

PROJECTS

Project Member, Snowflake integration of weather data, SQL & ETL, UC San Diego   08/2023 - 09/2023
- Wrote **data ingestion pipelines** to consume data from CSV/XML/Postgres/live data (Snowflake Marketplace)
- Combined data using **window/recursive functions** and CTE's in SQL **reducing storage by 67%**

Author, Counseling Summarization Using Mental Health Knowledge..., LCS2, IIIT-D   01/2021 - 02/2022
- Leveraged **topic classification and text generation (NLP)** by annotation of sub-topics and summaries requiring domain specific understanding of mental-health therapy conversations
- Conceptualized fusion of **transformer architecture** using Pytorch and Tensorflow, outperforming the best baseline **by 90 points** on Bleurt score

SPECIALIZED SKILLS

- Languages/Coding: Python, SQL, Java, C, C++, HTML, JavaScript, React, Nodejs, R
- Tools: AWS, Pytorch, Tensorflow, Pandas, Flask, MySQL, CI/CD, bash, docker, Kubernetes, Gemfire, Tableau
- Certifications: Google Cloud Program - Data Science Track, Citi Engineering Excellence - Level 1
- Projects: https://scholar.google.com/citations?user=FYqMCu4AAAAJ, https://github.com/tharunsuresh-code

PROFESSIONAL AFFILIATIONS & LEADERSHIP

- ***Co-Director of Marketing***, Rady Data Analytics Club   09/2023 - Present
- ***Co-Founder, Hextreme***: Led a startup for online learning for lower ranked colleges   10/2020 - 01/2021