

# Sahasraditya Thyadi

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## EDUCATION

### University of Colorado, Boulder

Boulder, CO

Master of Science, Computer Science — GPA: 4.0

May 2026

Relevant Coursework: Datacenter Scale Computing, Design and Analysis of Algorithms

### MS Ramaiah Institute of Technology

Bengaluru, India

Bachelor of Engineering, Electronics and communication — GPA: 8.2

May 2022

Relevant Coursework: Data Structures and Algorithms, Machine Learning, Cryptography, Network and Cyber Security

## TECHNICAL SKILLS

**Languages:** Python, Javascript, R, SQL, HTML, CSS

**Data Visualization:** Tableau, MS Excel

**Cloud Tools:** Google Cloud Platform - Bigquery, Compute Engine. Azure Data Fundamentals (DP-900)

**Tools and Frameworks:** Langchain, ReactJS, Express, PostgreSQL, Apache Spark, Git, Kubernetes

**CI/CD Tools:** Google Cloud Build, Github Actions

## EXPERIENCE

### Analyst | R, Tableau, Python, BigQuery

June 2022 – July 2024

Merkle

Bengaluru, India

- Outlined and developed a Tableau dashboard enabling a major home improvement retailer to monitor 15 vendors' performance across quality metrics, including return rates and customer ratings.
- Formulated a sophisticated Key Performance Indicator (KPI) on a 0-1 scale, facilitating effortless vendor performance comparisons at SKU and category levels.
- Engineered an end to end pipeline integrating Google Big Query data extraction, complex calculations and monthly Tableau dashboards, improving data accuracy and timelines.
- Led a team in building an automation script in R to streamline monthly dashboard data processing, slashing manual effort from 3 days to 4 hours.

### Trainee Intern | Python

Sep. 2021 – Oct. 2021

Bharat Electronics Ltd.

Bengaluru, India

- Collaborated with team members to conceptualize and construct a Gender Recognition and Diarization Model. Utilized a blend of Speech Signal Processing and Natural Language Processing techniques to accurately detect speakers' genders from speech inputs.
- Trained a Random Forest Classifier on 11,000 speakers across Hindi, English, and Chinese, achieving 90 percent accuracy in gender identification. Extended model capability to Japanese and Arabic speakers.

## PROJECTS

### Text2Comic | Flask, Next.js, Kubernetes, Pub/Sub, GCP Services

Nov 2024

- Designed and developed a scalable full-stack web application using Next.js (frontend) and Flask (backend) to transform text into comic-style visuals, integrating OpenAI GPT-3.5 and Stable Diffusion for narrative processing and comic-style image generation
- Implemented a cloud-native architecture leveraging Kubernetes for container orchestration, Google Pub/Sub for distributed messaging, Redis for caching, and Google Cloud Storage for output management, ensuring high availability, scalability, and optimized performance.

### Cine-Stellation | Next.js, Flask

Aug 2024

- Engineered a scalable full-stack movie recommendation system using Next.js, React, Flask, and Python, applying machine learning for similar movie retrieval.
- Designed and implemented an interactive canvas-based UI with force-directed graphs, enabling smooth panning, zooming, and genre-based clustering.
- Followed software engineering best practices including modular architecture, API design, and state management to ensure maintainability and performance.

### Generative AI SQL chat-bot | Python, OpenAI LLM, SQL

Feb. 2024 - April 2024

- Engineered an intelligent chatbot using the LangChain framework and OpenAI's Large Language Model (LLM) to query cricket statistics, integrating natural language processing to convert user queries into SQL for rapid retrieval from a database of over 200,000 entries
- Enhanced chatbot performance with few-shot prompting techniques for improved understanding of cricket-specific metrics (e.g., strike rate, economy rate, player matchups), demonstrating expertise in AI/ML technologies, natural language processing, database management, and sports analytics.