

Gowtham U

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Education

JSS Academy of Technical Education, Bangalore, India
B.E. in Computer Science

CGPA: 9.0/10

Projects

HealthMate - A Virtual Health Assistant

2023

- AI/ML-based health assistant with disease detection, medicine info, and appointment booking.
- Integrated MongoDB, Express.js, React, Node.js, and deployed on AWS.

One-Click Cloud Deployment Tool

2023-2024

- Deploys GitHub apps using Docker, Flask, React, Ngrok. Automated deployment flow.
- Added real-time logs, container cleanup, and cloud scalability (AWS, GCP).

Portfolio Website

2023

- Personal portfolio using React.js with dynamic theming, animations, and SEO optimization.
- Developed a blog section integrated with a CMS to allow easy content updates, using React.js and a headless CMS like Strapi, ensuring smooth content management.

Meetup Project using Web Scraping

2022-2023

- Built a scraper using Python and BeautifulSoup to extract and display meetup event details.
- Implemented a feature to automatically categorize events by type (e.g., tech, health, art) using natural language processing (NLP), improving user searchability.

Optimizing Compiler Backends with LLVM MIR

2025-Present

- Research on LLVM MIR for compiler optimization.
- Applied advanced optimization techniques like loop unrolling and instruction scheduling to improve execution efficiency in LLVM's backend compiler.

Skills

Languages: Python, Git, HTML, CSS, MySQL, SQL

Tools: Scikit-learn, Power BI, Google Analytics, AWS (EC2, S3), Excel

Other: Leadership, Public Speaking, Open-source Contribution

Experience

InternPe

September 2024

Web Development Intern

- Developed responsive websites using HTML, CSS, JavaScript.
- Improved UX with mobile-friendly design.

Co-Curricular Activities

- Contributor to GitHub open-source projects.
- NSS Volunteering: tree plantation, awareness campaigns, NSS painting camp, Volunteered for Learn2Learn Program(Tutoring government students).