

RATHNAM SUNDARAM

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EDUCATION

Manipal Institute of Technology, Bengaluru

Bachelor of Technology in Computer Science Engineering

August 2024 – July 2028

CGPA: 7.81 / 10

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript

Frameworks & Tools: Flask, Firebase, FastF1, Git, SQLite, Firebase Hosting, Figma

Platforms: Unix/Linux, VSCode, GitHub

Concepts: Data Structures & Algorithms, REST APIs, Web Development, Software Design, Web Scraping, Data Visualization

OPEN SOURCE CONTRIBUTIONS

- Built and maintained 5+ public repositories on GitHub covering Python, Flask, and F1 analytics projects
 - Created [F1time-predictor](#), applying ML regression models to real-time telemetry data
 - Developed [F1telemetry-](#), a tool to visualize throttle, braking, RPM, and DRS for comparative driver analysis
 - Published [MusicChatbots](#), a conversational Flask app that integrates Spotify API for music control
 - Designed [ShortLink](#), a functional URL shortener with SQLite backend and user-friendly UI
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CERTIFICATIONS

Interactivity with JavaScript-university of michigan

- [Fundamentals of Java Programming-Board University](#)
- [Neural Networks and Deep Learning-Deep learning.ai](#)
- [Programming Foundations with JavaScript, HTML and CSS-Duke University](#)
- [Generative AI: Prompt Engineering Basics-IBM](#)
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PROJECT EXPERIENCE (HIGHLIGHTS)

Formula 1 Lap Time Predictor – [GitHub](#)

Built an ML pipeline to predict qualifying lap times using FastF1 API; applied regression models and visualized output via Matplotlib and CSV exports

Music Recommendation Chatbot – [GitHub](#)

Conversational Flask app using Spotify API and HTML templates to suggest songs, process music commands, and offer a personalized experience

F1 Telemetry Visualizer – [GitHub](#)

Analyzed and plotted sector data for F1 cars including throttle, braking, RPM and DRS across laps; used FastF1, NumPy, and Matplotlib

ShortLink URL Shortener – [GitHub](#)

Minimalistic Flask app to generate, store, and redirect short URLs using SQLite and modular backend routing

PROFILE FOR INTERNSHIP

- Currently pursuing a Bachelor's degree in Computer Science with strong foundations in software development and system design
- Experienced with general-purpose programming languages: Python, Java, C++, JavaScript
- Confident working in Unix/Linux environments using Git, Bash, and CLI tools
- Hands-on experience building full-stack apps, machine learning models, and backend APIs
- Regularly contributing to open-source projects and technical communities on GitHub

- Self-driven learner with strong project portfolio and practical applications of CS theory

RELEVANT COURSEWORK

Data Structures and Algorithms • Operating Systems • Object-Oriented Programming
Database Management • Web Development • Software Engineering Fundamentals

INTERESTS & EXTRACURRICULARS

- Competitive programming and problem-solving (Codeforces, Leetcode)
- F1 analytics and sports data visualization
- Web automation, music tech, and terminal scripting
- Participated in college tech events and open source communities