

# Rishabh Preethan

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## EDUCATION

### New Horizon College of Engineering

B.Tech in Information Science

Expected Graduation, June 2024

CGPA: 8.38/10.0

**Related Coursework:** Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming

### Indian Institute of Technology Madras

B.Sc in Programming & Data Science

Expected Graduation, Dec 2025

CGPA: 6.86/10.0

**Related Coursework:** Machine Learning, System Commands, Business Data Management, Business Analytics

## EXPERIENCE

### Third Ray Inc.

Bangalore, India

Software Development Engineering Intern

Sept 2023 – Present

- Orchestrated the scraping of **1.5M records** from multiple websites using **BeautifulSoup** and **Docker** containers
- Reformatted and stored data in a database, merging all the data using **SQL**
- Collaborated closely with the CEO to implement a highly efficient filter-based chat experience using Chainlit, resulting in a **35%** increase in data retrieval speed and a **25%** improvement in user experience
- Engineered an innovative web scraping tool using Autogen, extracting specific data points from diverse websites, resulting in a **40%** reduction in manual data collection time for the client
- Submitted multiple proof of concepts on the internal working of Browserless and **webscraping using LangChain**

## PROJECTS

### Geo-fence Notifier App | Kotlin

Jun 2023 – July 2023

Individual Project

- Developed a location-based Android app in Kotlin using Android Studio, enabling users to create and name multiple geo-fences with a customizable radius on a map interface
- Implemented functionality for users to set custom messages for entering or leaving each geo-fence
- Sends SMS alerts when entering and leaving each geo-fence. Visualize and manage geo-fences on the map interface

### Sign Language Interpreter | MediaPipe, OpenCV

Jan 2024 – Feb 2024

Team Member

- Created a sign language interpreter with user customizable signs for alphabets/words, featuring a Streamlit interface
- Achieved an accuracy of **89.33%** by training a **CNN** to predict sign languages using MediaPipe for real time translations
- Implemented a feature to translate recognized signs into sentences, enhancing the interpreter's functionality

### Indian Stocks Website | Streamlit, API

Nov 2023 – Dec 2023

Individual Project

- Engineered a Streamlit based website for daily collection and storage of data on all Indian stocks post-market closure
- Pioneered convenient search options by symbol or name. The filtered data can also be downloaded
- Integrated graph visualization tools into the website, enabling users to compare multiple stocks simultaneously

### Spotify Playlist Generator | Python

Nov 2022 – Jan 2023

Team Lead

- Built a Python-based Spotify playlist generator using the Spotify API, which creates a new playlist in the user's profile, incorporating songs they have previously listened to
- Servicing user customization by allowing them to choose the playlist name, enhancing personalization
- Enhanced user discovery and enjoyment by adding **50 new songs** of similar genre that the user has not listened to before, based on their listening habits.

## TECHNICAL SKILLS

### Programming:

Java, Python, Bash, JavaScript, HTML/CSS, SQL, C, Kotlin

### Tools:

Android Studio, IntelliJ, PyCharm, Eclipse, Jupyter Notebooks, Git, VSCode

### Frameworks:

Autogen, Chainlit, OpenAI, Scikit-learn, Streamlit, LangChain, BeautifulSoup, TensorFlow, Numpy, Selenium, Pandas, OpenCV