

# MAHASVAN MOHAN

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## PROFILE

A third year B.Tech student of Shiv Nadar University Chennai, aspiring to provide effective solutions to business problems, using my growing knowledge in Software Development and Artificial Intelligence.

## EDUCATION

<b>B.Tech - Artificial Intelligence &amp; Data Science</b> <i>Shiv Nadar University Chennai</i>	2022 - Present <b>CGPA: 8.5/10</b>
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## PROJECTS

<b>MUNHelper - Model UN Preparation Buddy</b> <i>End-to-end, full-stack project, built on 1000+ Resolutions of the ECOSOC</i>	Jun 2024 - Present <a href="#">GitHub Link</a>
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- Engineered to ease MUN Prep by facilitating easy **UN Resolution lookup**, in **seconds**.
- LangChain** and **Local LLMs** are leveraged to infer context from resolutions and answer queries.
- Docker Compose** is used to eliminate machine-specific edge cases and ease deployment
- Includes an **REST API** made using **FastAPI**, and a **WebUI** using **React**

<b>BotMan - A Flexible Multipurpose Discord Bot</b> <i>Over 22,000 active users on Discord</i>	2022 - Present <a href="#">GitHub Link</a>
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- Written in **Python**, incorporating **REST API** principles and **Asynchronous Computing**.
- Uses **Docker Compose** to reliably deploy the Client and Server simultaneously.

<b>SensorSim - Physics-based Sensor Simulation Environment for Vehicles</b> <i>1st Place in K!Hacks 24, conducted by Anna University</i>	Feb 2024 <a href="#">GitHub Link</a>
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- Solved the need of automotive manufacturers for a reliable sensor testing simulator
- Implemented a 3D Physics-based simulator using **CARLA** which transmits sensor data using **FastAPI**
- High performance was achieved, and a simulation with **100 cars** was run successfully on a single machine.

## SKILLS

<b>Languages</b>	Proficient in <b>Python, Java, JavaScript, C</b>
<b>Web Development</b>	Backend - <b>Flask, FastAPI</b>   Frontend - <b>Streamlit, React</b>
<b>DSA</b>	Solved <b>250+</b> problems in <a href="#">LeetCode</a>   <b>Top 25.5%</b> globally in <a href="#">LeetCode Contest</a> .
<b>Leadership</b>	Event Management Head - <b>GDG On Campus</b>   Secretary - <b>SNUC MUN Society</b> .
<b>Public Speaking</b>	Participated in <b>Model United Nations</b> conferences for over <b>two years</b> .

## EXPERIENCE

<b>Shiv Nadar University Chennai</b> <i>Research Intern - Ongoing</i>	May 2024 - Present Under <a href="#">Dr.Subin Sahayam</a>
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- Currently studying the field of **Medical Image Processing**.
- Working on **Medical Image Segmentation** using [TransUNet](#)

## AWARDS

<b>K! Hacks 2024</b>   1st place in 300+ Teams   <i>Conducted by Anna University</i>	Mar 2024
<b>Encryptcon 2024</b>   Placed in <b>Top 6</b> among 400+ Teams   <i>Conducted by IIT Madras</i>	Jan 2024
<b>Envision'23</b>   <b>Runner Up</b>   <i>Conducted by IEEE Computer Society Madras</i>	Nov 2023
<b>HackIT'23</b>   Award for <b>Best Use of Google's Technologies</b>   <i>Conducted by SSNCE's IT Dept</i>	Oct 2023