

# Aswath Ramana K S

Shiv Nadar University, Chennai | aswathramana1310@gmail.com | +91 9150457603 |

<https://www.linkedin.com/in/aswath-ramana> | <https://github.com/AswathRamanaKS>

## Education

---

**Shiv Nadar University Chennai**, BTech in Artificial Intelligence and Data Science

Sept 2022 – May 2026

- GPA: 8.12/10.0 )

## Projects

---

### Comic/Manga Translator (Ongoing)

[github.com](#)

- The Manga Translator is a tool that automates the translation of manga text from its original language into the reader's desired language. Using advanced OCR, inpainting, and machine translation, it detects and removes original text, translates it, and re-embeds the translated text back into the manga panel, preserving the artwork's quality.
- Tools Used: Python, doctr OCR, cv2, LaMa Cleaner, Marian Translator.

### Valorant Aimbot (Ongoing)

[github.com](#)

- The Project performs Real-Time Object Detection using YOLOV8 to Makes an Aimbot for Valorant(game)
- Tools Used: Python, YOLOV8, cv2, OBS.

### Neuro Evolution of Augmented Topoly - Flappy Bird

[github.com](#)

- This project involves implementing the NeuroEvolution of Augmenting Topologies (NEAT) algorithm to create an AI capable of playing a Flappy Bird clone. NEAT is a powerful evolutionary algorithm that evolves neural networks to solve complex tasks, and this project aims to demonstrate its application in a classic game scenario.
- Tools Used: Python, Pygame, Neat.

### Bus Reservation System

[github.com](#)

- Developed a GUI-based bus reservation system using Java and Swing to handle bus booking and seat management and implemented file I/O operations to persist bus data, ensuring accurate seat availability across sessions and applied multithreading to update the GUI dynamically, reflecting real-time booking status.
- Tools Used: Java, Swing.

### Cafe Management System

- Utilized MySQL and SQLite databases for comprehensive and scalable data management, ensuring reliable operations. Implemented role-based access control for supervisors and employees with distinct and secure functionalities. Designed a responsive front-end with HTML and CSS, featuring a login page and employee-supervisor interfaces.
- Tools Used: JMySQL, SQLite, HTML, CSS.

## Certificates and Awards

---

### Computer Graphics

July 2023 – September 2023

#### NPTEL Indian Institute of Technology Guwahati

- Explored graphics pipeline stages and modern graphics hardware, including GPUs and the OpenGL library.
- Completed the course with an 88 percent score, earning an Elite certificate and a Silver medal.

### Edge Computing

January 2024 – March 2024

#### NPTEL Indian Institute of Technology Kanpur

- Explored theory and applications in low-latency, real-time computing scenarios, addressing cloud limitation
- Covered frameworks, techniques, and platforms including Docker, Kubernetes, MQTT, and Kafka.
- Completed the course with an 68 percent score.

## Technologies

---

**Languages:** Python, C, Java, C#, SQL, HTML, CSS

**Developer Tools:** VS Code, Eclipse, Jupyter, Unity Engine, Google Colab

**Concepts:** Operating Systems, Data Structures, Computer Organisation and Architecture, Design and Analysis of Algorithms, Artificial Intelligence, Machine Learning, Deep Learning, Data Analysis, Data Visualisation, Database Management, Software Development, Pattern Recognition, Computer Vision, Natural Language Processing, Optical Character Recognition.

**Soft Skills:** Communication, Teamwork, Problem Solving, Decision-Making, Time Management, Creativity, Leadership

**Extra-Curricular:** Game Development, 3D-Modelling, Video Editing, 2D/3D-Animations, Rigging.