

# Aswini Venkatesan

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## Education

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### Vellore Institute of Technology, Chennai

Aug 2023 – Aug 2027

B.Tech in Computer Science and Engineering

- CGPA: 8.88/10

### Prince Srivari Senior Secondary School, Chennai

April 2020 – May 2023

- AISSCE Grade 12 Percentage: 94.8
- AISSE Grade 10 Percentage: 96.2 (100/100 in Mathematics)

## Experience

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### AI and Cloud Intern at EduNet - IBM SkillsBuild

July 2025 – Present

- Selected via AICTE (Govt. of India) for a hands-on internship focused on IBM Cloud and AI tools. Built AI-based projects including chatbots, object classifiers, data analytics, RAUG systems and document-level LLM insights using platforms like Watson Assistant, Visual Model Builder and Data Prep.

### Tech Contributor at GirlScript Summer of Code (GSSoC)

July 2025 – Present

- Contributed to multiple open-source repositories by fixing bugs, enhancing features and improving documentation. Collaborated with project maintainers and peers using Git and GitHub workflows.

### Creative Department Member at Culture It - VIT Chennai

March 2024 – Present

- Designed event posters using Canva, coordinated college club activities and managed tasks under deadlines. Scored 92/100 for overall performance in sophomore year.

## Projects

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### Coral Reef Health Classifier using CNN

- Built a deep learning model using CNNs in TensorFlow to classify coral reef images as healthy or bleached. Applied image pre-processing, normalization, and augmentation for better generalization. Evaluated performance using ROC curves and confusion matrices along with Grad-CAM and t-SNE for interpretability.
- Tech Stack: Python, TensorFlow, Matplotlib, Scikit-learn, Seaborn, Google Colab, Kaggle

### AI-Powered Contract Insight Tool

- Built an AI-driven tool to summarize legal contracts, identify missing or critical clauses, assess risk levels and answer user queries related to the contract. Enabled file input, clause highlights through an interactive frontend and FastAPI backend.
- Tech Stack: Python, FastAPI, Cohere API, HTML, CSS, JS, VSCode, GitHub

### ExpenseTracker Pro - Expense Tracking Website

- The platform allows users to add, categorize, and view their expenditures with dynamic pie charts, graphs and monthly summaries. Implemented secure user authentication with bcrypt and MySQL for persistent data storage.
- Tech Stack: HTML, CSS, Node.js, Express.js, MySQL, VSCode

### Thread Synchronization and Semaphore Controlled Traffic Simulation

- Developed a multithreaded traffic simulation in Python using Pygame, demonstrating OS concepts like synchronization, mutual exclusion, and semaphore-based signal control with emergency vehicle prioritization.
- Tech Stack: Python, Multithreading, Semaphores, OOP, Simulation Design, Event-Driven Programming

## Skills

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**Languages:** Java, C, C++, Python, MySQL, JavaScript, HTML CSS, R

**Technologies:** VSCode, GitHub, LINUX, RStudio, IBM Cloud, MATLAB, LTSpice, Tableau, Microsoft Azure