

# SHISHPAL POLAMPALLY

☎ (+91) 9100283901 | ✉ shishpalpolampally@gmail.com | 🔗 shishpal-polampally | 🌐 shishpal0666

## EDUCATION

### Indian Institute of Information Technology Pune

B.Tech, Computer Science and Engineering

7.5 CGPA

Nov 2022 – Jun 2026

### Sri Chaitanya Junior College Hyderabad

Telangana State Board of Intermediate Education

93.5%

Jun 2020 – Mar 2022

## PROJECTS

### ClassFlow | React, Node.js, Express, MongoDB, JWT, Tailwind CSS | 🌐 GitHub | 🔗 Live

- Developed a collaborative Q&A platform for students to ask, answer, and discuss academic topics.
- Implemented secure authentication with **JWT**, enabling user profile management and activity tracking.
- Designed a responsive UI using **Tailwind CSS** and optimized API performance with **MongoDB Aggregations**.

### Market WebApp | Flask, Jinja2, Bootstrap, jQuery, HTML, CSS, PostgreSQL | 🌐 GitHub

- Developed a fully functional web application to simulate a marketplace where users can register, login, and trade items, focusing on user authentication and financial transactions.
- Implemented **Flask-Login** for secure sessions, with **Bcrypt** for password hashing.
- Utilized **PostgreSQL** for data management, item fetching, budget updates, and transaction records.

### Impact of Reward Function on Reinforcement Learning Agent | DQN Algos, Gazebo, ROS

- Created custom reward functions for RL navigation, featuring an **orientation-based function** that directs agents to align their movement with target goals.
- Implemented and compared deep reinforcement learning algorithms (DQN, DDQN, D3QN) to optimize collision-free navigation in 2D grid environments.
- Expanded research to 3D navigation environments using **Gazebo** and **ROS**, bridging simulated and real-world autonomous system challenges.

### CategoryCart | React, Redux Toolkit, Bootstrap, Axios, HTML, CSS | 🌐 GitHub | 🔗 Live

- Built a responsive e-commerce app with category-based product browsing and batch data fetching.
- Integrated **Redux Toolkit** for state management, storing categories, selected filters, and search inputs with synchronization to query parameters for persistence.
- Integrated **Axios** for **DummyJSON API** data fetching and styled the application using **Bootstrap** to ensure a clean and modern user interface.

## TECHNICAL SKILLS

**Programming Languages :** C, C++, Python, JavaScript, Java, HTML, CSS, SQL

**Frameworks & Libraries :** ReactJS, NodeJS, ExpressJS, Bootstrap, Flask, Redux Toolkit

**Database Systems :** MySQL, PostgreSQL, MongoDB

**Tools & Technologies :** RESTful API, Git, GitHub

**Robotics & Simulation :** Gazebo, ROS (Robot Operating System)

## COURSEWORK

Data Structures and Algorithms	Machine Learning	Computer Network
Operating System	Object-Oriented Programming	Database Management System

## CERTIFICATIONS & ACHIEVEMENTS

Secured Rank **3018** in **TS EAMCET** among 1.7 Lakh candidates.

Ranked in the top **2.7%** among 9 lakh candidates in **JEE Mains, 2022**.

Winner of **Eklavya college volleyball Tournament, 2024**.

Certified in Full Stack Web Development by Dr. Angela Yu, Developer and Lead Instructor.