

Anjalidevi Puram

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GitHub : <https://github.com/AnjaliPuram05>

Portfolio : <https://portfolio-zeta-tawny-30.vercel.app>

CAREER OBJECTIVE

A perseverant individual aspiring to secure a challenging position in the software industry, where I can use my coding and machine learning skills to build useful solutions. I want to learn, grow, and contribute to exciting projects while improving my technical abilities.

EDUCATION

- Bachelor of Technology - Computer Science and Engineering
R.V.R & J.C College of Engineering - Guntur
CGPA : 8.88/10 | (2021 - 2025)
- Higher Secondary School, Stream: M.P.C.
Sri Chaitanya Junior College - Guntur
CGPA : 9.75/10 | (2019 - 2021)
- Secondary School
Veenus High School – Guntur
CGPA : 10/10 | (2019)

SKILLS

Python

Basic Concepts

- Variables, data types (numbers, strings, lists, tuples, sets, dictionaries)
- Control structures (if-else, loops, operators)
- Functions

Core Concepts

- Object-Oriented Programming (classes, inheritance, polymorphism, encapsulation, abstraction).
- Exception handling (try, except, finally, custom exceptions).
- Map/filter/reduce, lambda functions.
- Modules & packages (import, pip, venv).

Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow / PyTorch.

Java

Basic Concepts

- Data types, variables, operators
- Control flow (if-else, switch, loops)
- Methods and parameter passing

Core Concepts

- OOP principles (Classes & objects, Inheritance Polymorphism (compile-time & run-time) Encapsulation Abstraction (abstract classes & interfaces)).
- Exception handling (try-catch-finally, throw/throws).
- Multithreading (Thread, Runnable, synchronization basics).
- Packages and access modifiers.

Sql

Concepts

- SQL database operations: data retrieval, insertion, updates, and deletions
- Aggregate functions: SUM, AVG, COUNT, MIN, MAX for data analysis and reporting
- Joins: INNER, LEFT, RIGHT, FULL for combining tables

- Subqueries: Nested queries for conditional data fetching
- Views: Virtual tables to simplify complex queries

Data Structures

Core concepts: Arrays, linked lists (singly, doubly, circular), stacks, queues, hash tables, trees, graphs.

PROJECTS

- **Multi-Agent Reinforcement Learning for Multi-Robot Intelligent Fixture planning**

This project presents a Multi-Agent Reinforcement Learning (MARL) framework for optimizing fixture placement in robotic manufacturing. Agents collaborate to minimize surface deformation using Nash-Q learning and Finite Element Analysis (FEA). A Gaussian-based reward function guides policy updates based on deformation outcomes. The approach is validated on bus and fan components, demonstrating improved structural stability.

- **Identifying a Covid affected Person using sklearn Python**

This project provides insights into symptomatic indicators of COVID-19 and leverages them as input features to develop an intelligent prediction model. Utilizing machine learning algorithms such as Logistic Regression, Decision Tree, Random Forest, and Gradient Boosting, the system classifies individuals based on the likelihood of infection. The model enhances early detection capabilities, supporting timely diagnosis and response.

- **School Management System**

A comprehensive School Management System using the .NET framework and C#. This system encompasses various modules, including Student, Teacher, Subjects, and Attendance, all interconnected with a robust database. The application allows administrators to securely log in and efficiently perform CRUD (Create, Read, Update, Delete) operations.

CERTIFICATIONS AND ACHIEVEMENTS

- NPTEL Online Certifications - The Joy of Computing Using Python and Programming in Java.
- Silver badge from CodeChef for Coding.
- Certificate of Talent in IQ Olympiad as State Topper during the year 2016-2017 conducted by Society for Advancement of Science and Technology.
- National Service Scheme - NSS special camp programme certificate.

VOLUNTEER EXPERIENCE

- As an integral member of the Women Welfare Committee, I coordinated every event organized by the WWC.
- I volunteered for the NSS Special Camp, dedicating seven days outside of college to raise public awareness about nature.