



Santhoshi Shalini Palla
Bachelor of Technology
in Computer Science and Engineering
Indian Institute Of Technology, Ropar

+91-7396642215
itspallashalini@gmail.com
GitHub | Leetcode
Codeforces | LinkedIn/shalini-palla

EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.13 (Till 5th Sem)	2022-2026
Senior Secondary	Board of Intermediate Education,Andhra Pradesh	98.6%	2022
Secondary	Board of Secondary Education,Andhra Pradesh	10	2020

PROJECTS

- **Dynamic Connectivity Checker** November 2024
Analysis and Design of Algorithms **Github**
 - Implemented a dynamic connectivity solution using graph algorithms. The project allows for adding/removing edges and checking connectivity between nodes in a graph.
- **Memory Management in xv6** Dec 2024
Operating Sysytems **Drive**
 - Developed the numvp() and numpp() system calls to count virtual and physical pages efficiently.
 - Implemented a memory mapping system using mmap() to extend process virtual address spaces.
 - Optimized the fork system call to implement Copy-on-Write (CoW) for efficient memory sharing.
- **Loan Application Data Analysis** Jan 2025
Machine Learning **Github**
 - Preprocessed loan data with missing value handling and feature scaling for machine learning pipelines.Balanced the dataset using RandomOverSampler to improve classification performance.
 - Built predictive models using Logistic Regression, Random Forest, and SVM with optimized hyperparameters.
- **ResearchX** April 2025
MERN Stack Application **Github**
 - This project is a clone of government research grant portals like ANRF, DST, or DBT, with additional features to digitalize paperwork and streamline the approval process
 - The project ensures efficient data handling with MongoDB, Express.js, React.js, and Node.js.
- **Mini Projects**
- **AIMS-PORTAL** AIMS PORTAL is a web application designed to streamline academic and institutional management. It provides features for student enrollment, course management, and performance tracking using the MERN stack.| **Github**
- **Residual Neural Network** Implemented ResNet for deep learning tasks using TensorFlow/PyTorch, optimizing training, evaluation, and model performance visualization.| **Github**
- **Lexer and Parser for Mini-C** Built a compiler with a lexer for tokenization and a parser for syntax validation.| **GitHub**

TECHNICAL SKILLS

- **Programming Languages:** C++ , Python , C, Javascript, Shell Script
- **Web Development:**
 - **Frontend:** HTML, CSS, Tailwind CSS, Bootstrap, jQuery, React.js,RESTful API
 - **Backend:** Node.js, Express.js
- **DataBases:** MySQL ,PostgreSQL, MongoDB
- **Development Tools:**
 - **version control::** Git , Github
 - **Containerization::** Docker
 - **Deployment::** Netlify, CodeSandbox
 - **other::** Jupyter,Linux, Perl

KEY COURSES TAKEN

- **CSE & Maths:** Machine Learning, Software Engineering, Operating systems, Data Structure & Algorithms(DSA) , Data Base Management systems, Programming Paradigms and Pragmatics,OOP, Computer Networks,Digital Logic Design, Discrete Mathematics, Introduction to computing and Data Structures, Probability and Statistics, Linear Algebra.

ACHIEVEMENTS

- **Leetcode:** Max rating 1756 , Secured rank 1823 in Biweekly Contest 144 2024
- **JEE MAINS:** Ranked among the top 1.3 percent of all India JEE Mains test takers. 2022
- **AP EAMCET:** Secured Rank of 580 among 300K Applicants. 2022
- **SSC:** Earned a perfect 10/10 in SSC exams,demonstrating strong foundational skills 2020