



Radha

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

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Portfolio | GitHub | LinkedIn
CodeForces

EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.79 (Till 4th Sem)	2022-2026
Senior Secondary	Central Board of Secondary Education	94.8%	2022
Secondary	Haryana Board of Secondary Education	96.4%	2020

EXPERIENCE

• Summer Intern at a startup, HIGHTIDE

May 2024 - June 2024

Role - Frontend Developer

Mumbai

- Developed and implemented the **frontend** of the company's website ensuring a **responsive** and user-friendly design.
- Worked with the UX/UI team on **design** and **wireframing** for intuitive and appealing interfaces.
- Utilized agile methods, attended daily stand-ups, sprint planning, and retrospectives for timely delivery.
- Received positive feedback from supervisors for demonstrating strong technical skills, problem-solving abilities, and effective communication.
- Technologies used: **HTML**, **CSS**, **Javascript**

PROJECTS

• Interactive Pokedex

June 2024

Tech Stack - HTML, CSS, JavaScript, API Integration

Demo | Github

- Developed a Pokedex application using **HTML**, **CSS**, **Javascript** with integration of the **Pokemon API**.
- Implemented a **search functionality** allowing users to find Pokemon by name.
- Integrated **auto-complete feature** for efficient Pokemon **name suggestions** as users type in the search bar.
- Displayed detailed Pokemon information on cards including image, name, description, abilities, type, stats, base happiness, base experience, growth rate and physical attributes.

• Scapegoat Trees Implementation and Analysis

Sep 2023 - Nov 2023

Course: Data Structures and Algorithms

Github

- Collaboratively implemented Scapegoat Trees in **C**, a self-balancing binary search tree, to efficiently handle **insertion**, **deletion** and **search operations**.
- Conducted a thorough analysis of the **time complexities** associated with Scapegoat Trees, comparing and contrasting them with **AVL trees**.
- Studied research papers, contributing to the deep understanding of scapegoat trees.

• Comprehensive Analysis of Loan Application Data

July 2024

Libraries used - NumPy, Pandas, Matplotlib, Seaborn

Github

- Processed loan data by handling missing values and encoding categorical features.
- Trained and evaluated Logistic Regression, Random Forest, and Support Vector Machine models on the processed data.
- Compared model performance using various metrics and fine-tuned the best model with GridSearchCV.

• Minor Projects

- **WeatherInsight**: Python script to fetch current **weather data** and other stats | **Python**, **OpenWeatherMap API** | [Github](#)
- **ATM Machine**: Implemented user authentication, balance checking, money deposit, withdrawal | **Java**, **OOPS** | [Github](#)
- **Naruto-Sasuke Game**: Developed a **fighting game** on **Scratch** featuring the anime **Naruto** | **Block Coding** | [Demo](#) | [Scratch](#)
- **RISC-V Simulator**: Designed an **assembler** for generating **machine code** for data and text segments | **C++** | [Github](#)

TECHNICAL SKILLS

- **Programming Languages**: C, C++, Java, OOPS, Python, Perl, Risc-V Assembly Language, SQL
- **Web Development Languages**:: HTML, CSS, Javascript, API Integration
- **Tools and Libraries**: Latex, Scratch, VS Code, Venus Simulator, Github, NumPy, Pandas, Matplotlib, Seaborn

KEY COURSES TAKEN

- **CSE**: Data Structures and Algorithm, Discrete Mathematics, Digital Logic Design, Programming Paradigms and Pragmatics, Computer Architecture.
- **MATHS**: Calculus, Linear Algebra, Differential Equations, Probability and Statistics.

POSITIONS OF RESPONSIBILITY

- **Member**, Coding Club, IIT Ropar.
- **Member**, Event Decoration and Hospitality Team of Advitiya'24, IIT Ropar.
- **Member**, Epicure Club of Zeitgeist'23, IIT ROPAR

Nov 2022 - Present

Feb 2024

March 2023

MISCELLANEOUS

- **Campus Winner of Saras AI Hackathon**, Developed a mental health chatbot using flowise AI. 2024
- **CodeForces**, Max rating: 1034 | Handle: [Radha_bansal](#) 2024
- **Scholar of KVPY'21**, Successfully cracked KVPY'21, a prestigious national-level scholarship program in India. 2022
- **JEE ADVANCED**, Secured 97.6 percentile in JEE Advanced amongst 0.25 million candidates. 2022
- **JEE MAINS**, Achieved 99.28 percentile in JEE Mains amongst 0.9 million candidates. 2022