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. *Nov 2022 - Present*
- **Member**, Event Decoration and Hospitality Team of Advitiya'24, IIT Ropar. *Feb 2024*
- **Member**, Epicure Club of Zeitgeist'23, IIT ROPAR *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*