



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	8.06 (Till 6th Sem)	2022-2026
Senior Secondary	Central Board of Secondary Education	94.8%	2022
Secondary	Haryana Board of Secondary Education	96.4%	2020

EXPERIENCE

- Arista Networks** May 2025 - July 2025
Software Engineering Intern
Pune, Maharashtra
 - Enhanced **Angular** UI to include latency thresholds configuration and feature toggle, with integration via **RESTful APIs**.
 - Modified SQL queries, integrated frontend-backend, and deployed changes to **VM server and Docker container** for testing.
 - Executed **iTests** on deployed builds and implemented **Unit and Playwright tests** to ensure functional correctness.
 - Collaborated closely with the team through weekly sync-ups, presented **SDDs** for new features, and actively addressed PR review comments while contributing to a large-scale codebase, using **CLI tools, and CI/CD workflows**.
 - Technologies used: Angular, TypeScript, RESTful APIs, SQL, Git, Gerrit, Bugsby, OpenGrok
- 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.
 - Received positive feedback for displaying strong technical skills, problem-solving abilities, and effective communication.
 - Technologies used: HTML, CSS, Javascript

PROJECTS

- NavBharat RailSangam App** Jan 2025
Tech Stack - Flutter, Dart, Firebase Authentication, Firestore
[Demo](#) | [Video](#) | [Github](#)
 - Collaborately developed **android app** that connects travellers, enables real-time chat and station-based cultural insights.
 - Implemented the Travellers Page with **user filters, connection request handling, and circular avatar-based chat navigation**.
 - Developed the Profile Page and key components of User Registration, integrated with **Firebase Authentication and Firestore**.
- TweetCrisis Analyzer** Oct 2025 - Present
Tech Stack - Transformers(BERTweet), scikit-learn, Pandas, NumPy
[Github](#)
 - Fine-tuned **BERTweet** to classify tweets into multi-level **disaster** and **humanitarian categories** using the **humAID** dataset.
 - Evaluated model performance using precision, recall, and **F1-score**, and generated classification reports across categories.
 - Exploring **LLMs** to compare and benchmark performance against transformer models for tweet classification.
- 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**
 - Scapegoat Trees**: Implemented a **self-balancing binary search tree** and compared with **AVL trees** | [C](#) | [Github](#)
 - ATM Machine**: Implemented user authentication, balance checking, money deposit, withdrawal | [Java](#), [OOPS](#) | [Github](#)
 - 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 and App Development**: HTML, CSS, Javascript, API Integration, Flutter, Firebase, Dart
- Tools and Libraries**: VS Code, Android Studio, Github, Gerrit, Bugsby, OpenGrok, NumPy, Pandas, Matplotlib, Seaborn

KEY COURSES TAKEN

- CSE**: Data Structures and Algorithms, Discrete Mathematics, Digital Logic Design, Programming Paradigms and Pragmatics, Computer Architecture, Operating Systems, Database Management, Analysis and Design of Algorithms, Software Engineering, Computer Networks, Theory of Computations, Natural Language Processing*.
- MATHS**: Calculus, Linear Algebra, Differential Equations, Probability and Statistics, Foundations of Data Science*.

POSITIONS OF RESPONSIBILITY

- Volunteer Teaching Assistant**, Database Management Systems, IIT Ropar. July 2025 - Present
- Member**, Coding Club, IIT Ropar. Nov 2022 - Present
- Member**, Event Decoration and Hospitality Team of Advitiya'24, IIT Ropar. Feb 2024

MISCELLANEOUS

- ICPC Kanpur Regionalist (2024-2025)**, Ranked 1090 in List 1 and 1054 in List 2 | [Certificate](#) 2024
- Campus Winner of Saras AI Hackathon**, Developed a mental health chatbot using flowise AI. 2024
- CodeForces**, Max rating: 1107 | Handle: [Radha_bansal](#) 2024
- Scholar of KVPY'21**, Successfully cracked KVPY'21, a prestigious national-level scholarship program in India. 2022
- Joint Entrance Examination**, top 2.4% in JEE (Advanced) and top 1% in JEE (Mains). 2022