

RITIKA SAINI

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Education

Chandigarh College of Engineering and Technology, Panjab University Chandigarh	2021 – 2025
<i>Bachelor of Engineering in Computer Science and Engineering</i>	<i>8.53</i>
Saint Soldiers International School, Chandigarh	2019 –2021
<i>Intermediate-CBSE</i>	<i>91</i>

I am a Hardworking and Enthusiastic final-year Computer Science student with a solid base in software development, AI, and a passion for innovative problem-solving.

Relevant Coursework

- Data Structures and Algorithms
- Database Management System
- Object Oriented Programming
- Machine Learning
- Data Mining
- Operating System

Certifications

- **Artificial Intelligence, AICTE and Edunet Foundation | IBM SkillsBuild | Jun'23 – Jul'23:** Applied machine learning models to mental fitness datasets using Python, achieving over 80% accuracy. Conducted data preprocessing, feature selection, and model evaluation. Collaborated with AICTE and Edunet Foundation to advance AI applications in mental health.
- **Artificial Intelligence & Cloud, AICTE and Edunet Foundation | IBM SkillsBuild | Jun'24 – Jul'24:** Utilized IBM Cloud Platform for AI and cloud solutions, integrating AI models with cloud services. Gained hands-on experience in enhancing machine learning and cloud infrastructure skills.

Projects

- ✓ **Bank Management System Development | Java | MySQL** **March'23**
 - Developed a Java-based application for comprehensive bank management, including features for account handling, transactions, and security, integrated with a MySQL database for efficient data processing.
 - Implemented key functionalities such as user login, PIN change, balance enquiry, deposit, and cash withdrawal with a user-friendly Java Swing interface.
- ✓ **Forest Fire Prediction System | Python, AI, Flask, HTML, CSS** **July'24**
 - Designed and implemented a Random Forest Classifier model predicting forest fire risk, leveraging environmental data to achieve over 90% prediction accuracy; findings pinpointed critical factors driving wildfire incidents.
 - Skills: Python libraries such as NumPy, Pandas, and Scikit-learn for model training and deployment, providing actionable insights for forest conservation.
- ✓ **Portfolio Website** URL: https://ritika-saini-786.github.io/PORTFOLIO_RS/
 - Designed and developed an interactive, responsive portfolio website to showcase skills, projects, and achievements.
 - Implemented a user-friendly interface with HTML, CSS, and JavaScript, featuring detailed project presentations and a contact section.

Technical Skills

Languages: Java, Python (with ML), C++ (Basics), SQL
Developer Tools: VS Code, IntelliJIdea, MySQL Workbench, Jupyter
Technologies/Software: MS Excel, MS PowerPoint, MYSQL, MATLAB

PUBLICATIONS

Co-author of 'Chaotic Watermarking for Tamper Detection' in Digital Forensics and Cyber Crime Investigation: Recent Advances and Future Directions, Routledge, 2023 [REFERENCE LINK](#)

ACHIEVEMENTS

- Full-fee Scholarship (2021-2022) for academic excellence at CCET College
- Scholar and Batch Topper of JNV Pathankot (2014-2019) for academic excellence
- 2nd Position in Ideathon for innovative ideas and solutions.
- National Rank 8914/119537 in MTSE (2017)
- NCC Cadet with A-Certificate (2019).

EXTRACURRICULAR

- **Vice President of Student Council | CCET COLLEGE**
- **Treasurer APRATIM2K23 | CCET COLLEGE:** Managed financial aspects for the college fest
- **Volunteer (YAIF, India): YAIF (Youth Against Injustice Foundation)** Led online awareness sessions and created content on menstrual health, personal safety, and good vs. bad touch to educate and support adolescent in village girls.