

Mayank Rauthan

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EDUCATION

Year	Degree/Exam	Institute	CGPA
2021 - 2025	B.Tech Computer Science engineering	Graphic Era Hill University	8.43 (till 6th sem)
2021	Intermediate (CBSE)	B.R New Modern School	10
2019	Matriculation (ICSE)	ST.Thomas, Pauri	9.4

INTERNSHIP EXPERIENCE

Data Science Intern | Insignia Consultancy (July 2024 - Sept 2024)

- Enhanced an AI-driven interview platform, boosting candidate assessment accuracy by 30%.
- Integrated machine learning models with web-based interfaces using FastAPI, Gradio, and Python.
- Conducted R&D on various TTS and STT libraries, implementing solutions like Suno Bark, GPT-2, and Sentiment Analysis for improved speech and text processing capabilities.

Programming Tutor | Infinity Institute (Jan 2021 - May 2022)

- Mentored over 70+ students in Java and Python.
- Achieved a 100% success rate in student exams and assignments.

PROJECT EXPERIENCE

Student Management System (Backend)

- Designed a **normalized relational database** using PostgreSQL for efficient data storage and retrieval.
- Developed a **user authentication and student management system** with CRUD operations for student records, course enrollments, and grade tracking.
- Technologies: Spring Boot, Spring Data JPA, Postgresql*

News App

- Developed an Android application enabling users to explore and search through 1000+ news articles based on keywords or trending topics.
- Implemented regional filtering, providing personalized news feeds based on user-selected regions.
- Added bookmarking functionality, allowing users to save and quickly access their favorite articles.
- Technologies: Java, Android Studio, REST API, Retrofit, Glide, SQLite*

Algorithm Visualizer App

- An interactive Android app to explore graph traversal, pathfinding, and sorting techniques.
- Dynamic node connections and real-time visualization.
- Technologies: Java, Android Studio, Custom Views, XML, Data Structures, Touch Event Handling*

SKILLS

- Languages:** Java, C, CSS, SQL, XML, HTML
- Tools:** Android Studio, Linux
- Frameworks:** Spring Boot, Spring Data JPA
- Databases:** MySQL, PostgreSQL, Oracle 10G, Google Firebase
- Soft Skills:** Problem-Solving, Presentation, Analytical Thinking, Leadership

ACHIEVEMENTS

President, Pragyan, The Personality Development Club (2022 - Present)

- Regularly conducted workshops and events in the domain of Soft Skills, with each event drawing participation from over 300 college students.

Advancing 2D Image Reconstruction Methods for Realistic Environment Modeling & Object Synthesis

- Research paper on developing a system for detecting and mapping objects in low-light conditions, creating detailed 2D representations through advanced hardware and software integration.