Ritik Kumar Koshta

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B.Tech. in Information Technology
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech	Indian Institute of Technology, Guwahati	8.00	2023-2025
B.Tech	Institute of Engineering and Technology DAVV, Indore	80.40%	2019-2023
Senior Secondary	CBSE Board	85.00%	2018
Secondary	MP Board	88.50%	2016

EXPERIENCE

- **LTIMindtree** — *Feb. 2023 - May. 2023*
  Software Development Intern — Remote
  – Interned at LTIMindtree in the Ignite-Training program of JAVA Track, excelled as a star performer with outstanding performance, achieving above **80%** marks in all milestone exams. Specialized in Java programming, Object-oriented concepts, Web development, and SQL.

PROJECTS

- **M.Tech Project | Efficient Parallel Algorithm for String Matching** — *Ongoing*
  (Dr. G. Sajith, Professor, Dept. of CSE, IIT Guwahati)
  – Aim to study an efficient algorithm for locating all occurrences of a given pattern in a large text using parallel processing and external memory, minimizing data transfer overhead. The designed parallel algorithm will be optimal in space and time compared to the corresponding existing sequential algorithms.

- **Speech-Based Animal Name Translator** — *Jun. 2023 - Dec. 2023*
  (Course Project, Dr. Pradip Kr. Das, Professor, CSE, IITG) — **Demo Video** | GitHub
  – Designed a child-friendly C application translating common English animal names to Hindi. Leveraged advanced techniques like **Linear Predictive Coding** and **Hidden Markov Modeling**, achieving **95%** training accuracy. During live testing, the application demonstrated strong performance with an accuracy range of **65-75%**.
  – Tools Used: **C/C++, MS Visual C++, Cool Edit**

- **Memories - The Posting Site** — *Jan. 2023 - May. 2023*
  (Personal Project) — **Demo Video** | GitHub
  – It is a captivating MERN stack web application that empowers users to share their unforgettable travel experiences. By providing a platform for users to chronicle their journeys, it fosters a global community of adventure-seekers. Hosted on Heroku and Netlify, it showcases my learning's in full-stack development and deployment.
  – Tools Used: **MERN, HTML, CSS, JavaScript**

- **Multiple Disease Prediction System** — *Nov. 2022 - Jan. 2023*
  (8th Sem Major Project, Dr. C.P. Patidar, Professor, IET DAVV Indore) — **Demo Video** | Reports
  – This system uses Machine Learning and Flask to predict diseases based on user-entered symptoms, initially focusing on Breast Cancer, Diabetes, and Heart Disease with the potential to include more diseases in the future. The system exhibits notable accuracy, with results of **97%** for breast cancer, **87%** for heart disease, and **83%** for diabetes.
  – Tools Used: **Machine Learning, Flask, Bootstrap**

TECHNICAL SKILLS

- **Programming Languages**: C/C++, JAVA
- **Web Technologies**: HTML, CSS, JavaScript*, MERN*
- **Database Management**: MySQL, MongoDB
- **Operating Systems**: Windows, MacOS, Ubuntu*
- **Development Tools**: VS Code, GIT
- **CS & Fundamentals**: DSA, Operating Systems, DBMS, Computer Networks

* Elementary proficiency

KEY COURSES TAKEN

- **Computer Science**: Image Processing with Machine Learning, Design and Analysis of Algorithms, Speech Processing, C-based VLSI, Virtual and Augmented Reality Systems, Parallel Algorithm
- **Online Course**: Web Developer Bootcamp | Udemy *(Show Credential)*

ACHIEVEMENTS

- **All India Rank 384**, GATE CSE, Percentile: **99.5956%**, Marks: **64.67**, Score: **712** — *Year- 2023*
- **LeetCode**, Solved more than **480** LeetCode problems. — Profile: *Click Here*
- **CodeForces**, Contest rating **1097**. — Profile: *Click Here*

EXTRACURRICULAR

- **Graphic Designer**, Elevated post engagement rate by **37%** through impactful design strategies at TRPWS. *2020*
- **Teaching Assistant**, CSE Department, IIT Guwahati — *2023 - 2024*
  – CS 549 (Computer and Network Security) and CS 563 (Natural Language Processing).
  – Managed **40 to 50** student classes, offering vital support to enhance the learning experience.