

RISHI SINGH

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EDUCATION

Manipal University Jaipur BTECH Computer Science and Engineering <i>GPA: 9.28</i>	Jaipur, Rajasthan Aug 2023 - Present
Mother's Public School 12th grade Computer Science <i>Percentage: 92.4%</i>	Bhubaneswar, Odisha April 2020 - April 2022
Loyola School 10th grade Science <i>Percentage: 96.4%</i>	Bhubaneswar, Odisha March 2010 - March 2020

EXPERIENCE

Randomize Muj <i>Webmaster - Core Working Team</i>	June 2024 - Present
<ul style="list-style-type: none">Delivered a technical session on Full Stack Web Development at 'Hello World,' a hands-on tech talk event. Covered modern frameworks, best practices, and real-world implementation strategies to enhance developer proficiency.Organized and conducted 2 in-house workshops on frontend web development to enhance the club's technical proficiency and project readiness.Participated in passion projects and led two full-stack projects each with a team of 5-6Worked on and created the official tech club site in a team of 2Involved in multiple machine learning projects, applying algorithms, data preprocessing, and model optimization to solve real-world problems.	
MUJ ACM Sigbed Chapter <i>Web Development Head</i>	May 2024 - Present
<ul style="list-style-type: none">Collaborated on and improved the official ACM Sigbed tech site built on next.jsAssisted with IoT and embedded systems projects, supporting the development of smart, sensor-driven devices and autonomous systems using microcontrollers and real-time processing.Contributed to multiple web designing projects, enhancing UI/UX and frontend functionality.	

SKILLS

Programming Paradigms & DSA:	OOPS & DSA in Java, Structured Programming & DSA in C
Machine Learning & AI:	Supervised Prediction & Binary Classification Models, Regression, Clustering, SVMs
Deep Learning:	Neural Networks, CNNs, Transformers
ML Ops & Data Alchemy:	TensorFlow, Keras, Scikit-Learn, Pandas, NumPy, OpenCV, Matplotlib
Frontend Languages:	HTML5, CSS - Tailwind, Bootstrap, JavaScript
Web Frameworks & Libraries:	ReactJS, ExpressJS
Databases:	PostgreSQL, MySQL, MongoDB
Decentralized Stacks & Crypto Logic:	Web3, DApps

PROJECTS

Quill - A Handwritten Assignment Writing Robot <i>Machine Learning Co-lead, In collaboration with a team of 8 from Randomize MUJ</i>
Engineered a handwriting synthesis model employing CNNs, processing 115k+ handwritten words from the IAM dataset, enabling accurate conversion of any handwriting style into a digital format within 5 seconds.
Official Tech Club Site - Randomize <i>In collaboration with a team of 2</i>
Conceptualized and launched Randomize Muj's official website using React.js and Vercel, delivering a 90% faster page load speed and improved user experience within the first month of launch.
Medimate - Smart Aid for Healthcare Professionals
Built on express and employs full stack web development to add interactivensess and functionality. Brochure website for the actual technology
Hazmate
Integrated a web platform with a chatbot using RAG and LangChain to retrieve eco-friendly alternatives from the ChemSec SIN List. Developed the React, Tailwind CSS, and JavaScript frontend, ensuring seamless AI interaction and an intuitive user experience.

AI Fashion Predictor - Smart Style Recommendations

Constructed an AI-powered fashion predictor using tensorflow & keras that suggests outfits based on trends and user preferences.Utilized ML models to analyze colors, patterns, and styles. Trained on 70k+ images from the diverse fashion MNIST dataset for accurate recommendations.

AI Handwritten Digit Classifier - Real-Time Recognition

Designed a CNN-based model using TensorFlow & Keras to recognize handwritten digits. Trained on 60k+ images from the MNIST Handwritten Digits dataset

Bookmark Organizer - Dynamic Sorting & Search

Created a React and Express-based bookmark management app featuring dynamic sorting, real-time search, and category-based organization for seamless access. Integrated Framer Motion for smooth UI animations and implemented user authentication with Express for secure profile management.

Frontend Games

Demonstrated frontend expertise by developing interactive and responsive games using React, featuring dynamic UI and animations. Projects include Simon Game, Drum Kit Game, and Dice Game, showcasing engaging user experiences and seamless responsiveness.

Workout Tracker - Personal Gym Companion

Lists out the workout routine according to the day. Aids in keeping track of the number of times one skips the gym by a failure counter

NOTABLE ACHIEVEMENTS

Dean’s List Certification

Manipal University Jaipur

Received it twice consecutively, in recognition of having received the highest-grade point average in both the first and second semesters.

Glory 2022 Award

Mother's Public School

In recognition of having scored above 90% in AISSCE 2022

Academic Excellence Award

Loyola School

In recognition of having scored above 90% in ICSE 2020