

MANOJ KUMAR SIAL

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EDUCATION

Indian Institute of Technology Roorkee	B.Tech - Computer Science CGPA: 7.21/10.0	2021-2025
Jawahar Navodaya Vidyalaya, Bagudii, Balasore	Class: Intermediate Pct: 92.4	2018-2020

TECHNICAL SKILLS

- **Programming Languages:** Java, C++, Python, SQL
- **Frameworks and Libraries:** React, TensorFlow, PyTorch, Pandas
- **Development Tools:** VS Code, Git, Github, Docker, Kubernetes, AWS
- **Proficient:** Problem Solving, Development, Machine learning
- **CourseWork:** Database Management, Operating Systems, Computer Networks

WORK EXPERIENCE

Eazybyts Infotech	New Delhi
Software Development Intern React.js, Node.js, Mysql	April 2024 – May 2024
<ul style="list-style-type: none">● Integrated JWT-based authentication to secure user access, improving application security by 35%.● Implemented a RESTful API using Node.js and Express, enabling 30% faster data transfer between the front-end and backend modules.	

UNIVERSITY PROJECTS

FAKIFY(Fake Image Detection) TensorFlow, Keras, GAN, OpenCV	Nov 2024- Present
<ul style="list-style-type: none">● Built ML models, including GAN, to accurately classify images as fake or real.● Fine-tuned Xception using transfer learning and advanced optimization on curated datasets.	
STOCKIFY (Trading Platform) Link LSTM, WebSocket, HTML, CSS	Feb 2024- April 2024
<ul style="list-style-type: none">● Developed a real-time trading platform with buy/sell capabilities for NSE-listed stocks.● Implemented a responsive React.js frontend with a Node.js and Express backend, optimizing performance and reducing latency by 25% using WebSock.	
Differentially Private Generative Adversarial Network Link GAN, PyTorch, TensorFlow	Feb 2024 - April 2024
<ul style="list-style-type: none">● Developed a GAN-based model using PyTorch and TensorFlow to generate synthetic data and predict future video frames to recover lost/encrypted content.● Implemented differential privacy techniques like Laplace noise and exponential mechanism to ensure secure and private data.	
Design and Implementation of Configurable Cache Simulator Verilog	Sept 2022- Oct 2022
<ul style="list-style-type: none">● Developed a configurable cache simulator in Verilog to model and analyze diverse cache architectures.● Implemented LRU replacement policy to optimize performance and accuracy.	
PsyGma Link React, Node.js, Express.js, MongoDB, Restful API	Sept 2024- Dec 2024
<ul style="list-style-type: none">● Built an interactive game application using JavaScript with dynamic UI and real-time feedback.● Integrated game logic, animations, and score tracking for an engaging user experience.	

Organization & Volunteering Experience

Manager DESIGN SOCIETY IIT ROORKEE	Aug 2022 - March 2023
<ul style="list-style-type: none">● Managed a team of 7 members for the Conclave 2.0 event, focusing on building websites and designing posters.● Organized an AI Hackathon for 100+ participants, guiding the development of agent-based AI systems using uAgents.	

ADDITIONAL

Competative Programming achievements: Global Rank 7 CodeChef Starters 150 Division 3 Global Rank 88 CodeChef Starters 149 Division 3 Global Rank 222 CodeChef Starters 153 Division 3

Languages: English, Hindi, Odia

Certifications & Training: Google Data Analytics, Machine Learning, Computer Network.