

Tushar Sharma

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Github | Website | LinkedIn

EXPERIENCE

• The Arena

June 2024 - July 2024

Software Engineer Intern

Remote

- **Skills Used:** NestJs, React, Docker, TypeScript, Node, SQL, Express, Redis
- Worked on the development of scalable front-end and back-end features, resolving high-priority bugs, optimizing performance, and implementing robust new functionalities, contributing to overall system efficiency.

• Navavishkar Innovation Hub, IIT Tirupati

May 2024 - June 2024

STAR-PNT Research Intern

Tirupati, India

- **Skills Used:** Machine Learning, Computer Vision, Research, Flutter
- Designed and implemented a face detection and recognition-based group attendance system, improving and scalability and accuracy to 99 %. Developed and deployed end-to-end models, and contributed to Flutter app development.

• Institute Library, IIT Jodhpur

Aug 2024 - Nov 2024

Software Developer

Jodhpur, India

- **Skills Used:** Flutter, dart, Node.js, MySQL, API, App Dev, UI/UX, React, Web Scraping
- Developed a cross-platform Library Management App for IIT Jodhpur with over live 1500+ users. An admin dashboard for real-time analytics, announcements, and user management with team collaboration.

PROJECTS

• Multiagent System for Campus Virtual Tour

GitHub

Autonomous Systems, IIT Jodhpur / Dr. Gaurav Harit

- Developed a multi-agent system for a campus virtual tour, featuring autonomous agents for navigation, real-time interaction, and dynamic information delivery including Building Information and Campus Infrastructure agents.
- **Tools & technologies used:** CrewAI, ROS2, Python, Multiagent Systems

• Text Classifier for Emails

GitHub

Pattern Recognition and Machine Learning, IIT Jodhpur / Prof. Richa Singh.

- Implemented machine learning algorithms, deployed models, and created a interface. Performed data visualization for exploratory data analysis. It categorizes the mails into relevant categories such as politics, science, etc.
- **Tools & technologies used:** NLTK, Streamlit, Pickle, Machine Learning, NLP

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (CSE)	Indian Institute of Technology, Jodhpur	7.38	2021-2025
Senior Secondary	CBSE Board	96.6%	2021
Secondary	ICSE Board	94.2%	2019

SKILLS

- **Programming:** C/C++, Python, JavaScript, TypeScript SQL, Dart
- **Tools:** Git, JIRA, Jupyter Notebook, Google Colab, Figma, Operating Systems, Object Oriented Programming
- **Libraries/Frameworks:** Pandas, Numpy, scikit-learn, Tensorflow, Pytorch, OpenCV, flutter, ROS2, PyOpenGL
- **Web Skills:** HTML/ CSS/ JS, ReactJS/ NextJS, Web3, Node
- **Soft Skills:** 3Cs- Commitment, Collaboration, Communication; Leadership

KEY COURSES TAKEN

- Data Structure, Algorithms, Pattern Recognition, Machine Learning, Human Machine Interaction, Database Systems, Operating Systems, Software Engineering, Computer Vision, Cyber Security, Optimization in ML, Artificial Intelligence, ML for Economics, Autonomous Systems, Blockchain, Computer Graphics, Big Data

POSITIONS OF RESPONSIBILITY

- **Undergraduate Teaching Assistant**, Introduction to Computer Science, IIT Jodhpur Aug 2024 - Nov 2024
- **Vice President**, Society of Alumni Affairs, IIT Jodhpur Oct 2023 - May 2024
- **Secretary**, ACM Student Chapter, IIT Jodhpur Sep 2022 - Aug 2023
- **Student Guide**, Student Wellbeing Committee, IIT Jodhpur Aug 2022 - July 2023

ACHIEVEMENTS

- **Institute Rank 8** among 2500+ registered candidates on GfG in DSA problem-solving. current
- **Medal**, Student Distinguished Services Award, IIT Jodhpur 2024
- **8th Position, Inter IIT**, Theatre Arts, Cult Meet 6.0 2023