



Tushar Verma

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 LinkedIn Profile

EDUCATION

- **National Institute of Technology, Surathkal** 2023-Current
M.Tech Computer Science CGPA: 7.98
- **Indore Institute of Science and Technology** 2019-2023
B.Tech Computer Science CGPA: 8.8
- **Shri Barfani Academy** 2019
Senior Secondary (XII), Science, MPBSE board Percentage: 87.4

EXPERIENCE

- **Betaque Solutions (Link)** December'21 - July'22
Solution Engineer Indore
 - Specialized in creating responsive and interactive websites using the MERN stack. Exhibited front and back-end development proficiency, ensuring seamless integration and user experience.
 - Designed Betaque Solutions' official website, successfully delivered customized websites for three external clients, and Led the development of a quiz application. Executed best practices for code optimization, security, and scalability, contributing to the overall improvement of development processes within the organization.

PERSONAL PROJECTS

- **Automated Knee Dysfunction Detection from MRI Images Using CNN Methods** Jan'2024 - Ongoing
 - **Tech Stack Used:** Deep Learning, Python, TensorFlow, Keras, Stanford University Dataset, Private Hospital Dataset
 - Implemented and analyzed deep learning CNN models from various research papers to detect Knee Dysfunction with MRI images. Based on those papers, achieved the highest accuracy of 78%. Further, a private dataset from an Indian hospital will be incorporated to improve model accuracy and get the best model for optimal performance.
- **AQM Evaluation Suite** March'2024 - April'2024
 - **Tech Stack Used:** NeST (Network Simulation Tool), AQM Algorithms
 - We created and implemented an architecture for evaluating various AQM algorithms, enabling comparative analysis under 27 scenarios and at least five metrics to calculate for each. The system effectively tested multiple algorithms within one scenario, showcasing proficiency in network simulation and algorithm evaluation.
- **Career Guidance System with Chatbot (ZOZO) (Link)** Aug'2022 - Nov'2022
 - **Tech Stack Used:** Web development, Machine Learning (Fuzzy Logic, various ML libraries)
 - We developed a web-based career guidance system that uses machine learning to analyze user responses and suggest optimal career fields based on interests. We also displayed web development and machine learning proficiency by creating a personalized career guidance platform. The system analyzes user inputs to provide tailored career recommendations, showcasing an advanced understanding of ML applications and commitment to user experiences. The model had an accuracy of 84% regardless of the number of questions.
- **Online Quiz App (QuizDOM)** May'2022 - July'2022
 - **Tech Stack Used:** MERN stack, Firebase
 - We created a quiz application that allows real-time tracking of quiz progress and automatic saving of answers. The admin dashboard provides comprehensive management tools, and response tables enable detailed analysis of quiz results, making it easy for students and teachers to get valuable insights.
- **Driver Drowsiness Detection System (D-Cube) (Link)** Feb'2022 - Apr'2022
 - **Tech Stack Used:** Python, OpenCV, dlib
 - We exhibited proficiency in Python by developing a driver drowsiness detection system that enhances road safety. The system effectively monitors driver alertness using advanced face detection techniques, showcasing an innovative approach to reducing accidents.
- **Other Web Dev Projects:(Click on names)**
 - Socially Active, UltraBuildings, ReadyDeals

TECHNICAL SKILLS AND INTERESTS

Languages: C, C++, Python
Developer Tools: Git
Frameworks: React, Node.js, Express, TensorFlow, Keras
Cloud/Databases: MongoDB, Firebase
Soft Skills: Leadership, Team collaboration, Communication
Coursework: Machine Learning, Deep Learning, Web Development, Data Structures and Algorithms
Areas of Interest: Machine Learning, Deep Learning, Full Stack

POSITIONS OF RESPONSIBILITY

- Position : Placement Coordinator (M.Tech CSE, Career Development Cell) 2024-25
- Position : President, (Music Club,AI/ML) 2022-23

ACHIEVEMENTS

- Achieved AIR 1137 from among 1,20,000 students applying in the first attempt. 2023
- Qualified for NDA exam and selected for SSB on the first attempt with ranking in the top 100 in Mathematics2019
- Smart India Hackathon Finalist being 1st Runner-up in the Finals 2022
- Kabbadi, Table Tennis and Badminton Regional Player, with Gold and Bronze Medals 2018