Arafat Ahmad Sheikh

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Indian Institute of Technology, Jodhpur

Education

Indian Institute of Technology, Jodhpur **2023 – Present**
Bachelor of Technology, Computer Science and Engineering *CGPA: 7.97 / 10.0*
Central Board of Secondary Education (CBSE), Class XII **2022**
Percentage: 94.2%
Central Board of Secondary Education (CBSE), Class X **2020**
Percentage: 93.5%

Technical Skills

Languages: C++, Python, JavaScript, C, SQL
Frameworks & Libraries: React.js, Node.js, Express.js, Streamlit, Scikit-learn, Pandas, NumPy
Developer Tools: Git, VS Code, Postman, Google Colab, Django
Databases & APIs: MongoDB, REST APIs, MySQL
Concepts: Data Structures, Algorithms, Machine Learning, Object-Oriented Programming, Data Visualization

Projects

AutoShare — Auto-rickshaw Ride-Sharing Platform **Oct 2025 – Dec 2025**
Technologies: Django, Django REST Framework, Authentication
- Built a Django REST backend to enable cost-effective ride sharing for IIT Jodhpur students (26 km commute).
- Developed REST APIs and core models for rides, users, and chat with strict validation on seat availability and user limits.
- Enforced API-level authentication and authorization to gate ride-related actions.
- Implemented ride lifecycle rules including hiding full rides and limiting active rides per user.
- Live Application

ShadowChat | Real-Time Chat Application **Jan 2025 – Mar 2025**
Technologies: MERN Stack (MongoDB, Express.js, React.js, Node.js), Socket.io, JWT, DaisyUI
- Architected a full-stack MERN application and validated its real-time messaging capabilities by successfully testing with up to 10 concurrent users via Socket.io.
- Implemented 5+ core features including JWT-based authentication, media sharing, and a customizable UI offering over 30 themes via DaisyUI.
- GitHub Repository

Financial Risk Detection System **Nov 2024 – Dec 2024**
Technologies: Python, Scikit-learn, XGBoost, Streamlit, Git
- Analyzed and evaluated 5+ classification models (including Logistic Regression, Random Forest, and XGBoost) on a dataset of 15,000 records with 20 features to benchmark performance for a financial risk prediction task.
- Implemented hyperparameter tuning using GridSearchCV to identify the optimal Decision Tree and Random Forest models, improving overall predictive performance.
- Deployed the optimized model as an interactive Streamlit web application to provide real-time risk classification from user-provided data.
- GitHub Repository

Relevant Coursework

Data Structures and Algorithms, Machine Learning, Operating Systems, Database Systems, Design and Analysis of Experiments, Probability, Statistics and Stochastic Processes, Linear Algebra, Calculus.

Achievements

- **JEE Mains:** Secured a rank in the top 2% (98.7+ percentile) among over 10 million candidates nationwide.
- **JEE Advanced:** Qualified for JEE Advanced, one of India's most challenging engineering entrance examinations.
- **DSA Programming:** Solved over 400 problems on LeetCode, with a focus on advanced Data Structures and Algorithms (Graphs, Dynamic Programming, Trees).

Leadership & Activities

- **Publicity Team Member, Varchas'23:** Coordinated with a 10-member team to execute a multi-platform digital media campaign for the annual sports fest, driving a significant increase in event participation and online student engagement.
- **Public Relations Volunteer, Prometeo'24:** Managed logistics and communication for 5 external participants across major technical events and workshops at the annual technical fest.