Naman Lakhani

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EDUCATION

Dwarkadas J. Sanghvi College of Engineering, Mumbai University   **2021 – 2025**
Bachelor of Technology in Artificial Intelligence and Machine Learning
- Honors in Immersive Technology from Mumbai University
- Developing an AI-Based Optimised Scheduling Algorithm and Recommendation system for optimized task scheduling
- **Relevant courses:** Deep Learning, Operating Systems, Data Structures, Algorithms, Artificial Intelligence, Machine Learning, Computer Networks and Securities, DBMS, Statistics

INTERNSHIP EXPERIENCE

React developer | *Orinova Innovations Pvt Ltd*   **July 2023 – Present**
- Integral role across website development lifecycle: ideation, creation, and deployment. Utilized Styled Components and Tailwind CSS to craft an engaging, responsive UI.
- Collaborated on a cybersecurity website's ideation, contributing to conceptualization. Presented features in investor meetings, providing technical insights to stakeholders.
- Developed an overseas education website featuring courses and registrations, streamlining access to educational opportunities.
- Developed a model casting agency website with visually appealing UI, enhancing user experience and engagement.

Full-Stack Bubble Developer | *Gochankya Engineering*   **June 2023 – August 2023**
- Spearheaded end-to-end development of a dynamic club landing page, featuring customized sections tailored to user preferences.
- Engineered a comprehensive dashboard enabling real-time user interaction and engagement, akin to a Discord-like platform.
- Orchestrated SEO optimization strategies, elevating page visibility and enhancing its online performance.
- Initiated A/B tests, enhancing user count and overall page performance through iterative enhancements.

DataAnalyst | *BlueLearn*   **Feb 2022 – April 2022**
- Utilized Excel functions such as VLOOKUP and pivot tables alongside Power BI to analyze diverse blockchain and web3 companies, extracting decisive insights for informed decision-making.
- Uncovered intricate trends through thorough exploration of company lists, contributing to strategic business recommendations within the blockchain and web3 sectors.

ACADEMIC PROJECTS

AutoGenius - Model to accurately predict the price of a used car *[OpenCV, React.js, MUI, StyledComponents]*
- Developed an immersive car selling website utilizing React.js and Styled Components, streamlining user-friendly car buying and selling interactions.
- Analyzed and compared diverse regression models, selecting Ridge Regression for its superior predictive accuracy.
- Engineered a comprehensive data transformation pipeline to address null values, ensuring data quality and performance optimization. Identified RidgeCV as the ideal regularization method for effective data fitting.

AI-Based Healthcare Triage System *[XG-Boost, CT-GAN, Streamlit, Langchain, OpenAI LLM]* -
- Developed AI-driven triage system for predicting patient severity, optimizing emergency resource allocation.
- Implemented geofencing and personalized chatbot for efficient hospital location and symptom-based health advice.

Real Time AI Railway Monitoring Using CCTV *[Deepsort, Yolov3, Tkinter, Streamlit, Seaborn]*
- Utilized Deep Learning and OpenCV, employing YOLOv8 for object detection to monitor crowd count and identify abnormal activities (e.g., running or stampedes) in real-time. Automatic alerts were sent to authorities upon detection of such events.
- Implemented dynamic heatmap generation for suspicious stationary behavior, ensuring continuous monitoring and immediate identification of potential security threats. Developed an interface for user-friendly access and generated detailed PDF reports summarizing monitoring activities for ease of understanding.

HANDS-ON EXPERIENCES

DJS Racing Autonomous Team Member-
- Fuse advanced Lidar sensors for accurate environmental perception and localization.
- Integrate Nvidia Jetson for parallel AI processing, enhancing real-time decision-making.
- Drive AI and Machine Learning Integration for Enhanced Vehicle Dynamics:
- Apply computer vision for object detection and trajectory prediction, ensuring swift track adaptability.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, HTML, CSS, JavaScript, SQL, React.js, Node.js, Django, Flask, Streamlit
- **Tools & Platforms:** Git, GitHub, Adobe Photoshop, Adobe Illustrator, Figma, Blender, Canva, Jupyter and Latex.

ACHIEVEMENTS

- 1st Place at NDIM (New Delhi Institute on Management) for B-Plan
- Stood 5th in **Formula Bharat**, an international Formula Student Racing competition, 2021 (DJS Racing)
- HackX (2023): Top 10 Finalist Overall and AIML Track 2nd Runner Up (Problem Statement and Solution)

EXTRACURRICULAR ACTIVITIES

- **Treasurer at DJS SigAI (AI and ML committee)**
- **Driverless (Autonomous) Team Member at DJS Racing (Official Racing Team)**
- **Events Associate at E-Cell (Official Entrepreneurship Cell)**
- **Board of Director at Rotaract Club of Mumbai Ghatkopar (Non-Profit Organization)**