Shubham Darji

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EDUCATION

K. J. Somaiya Institute Of Technology, Mumbai, India   **November 2022 -Present**
Bachelor of Engineering in Computer Engineering   **(CGPA 8.57/10)**
Relevant Courses: C Programming, Programming in Python, Data Structures and Algorithms, Database Management System (DBMS), Operating System, Data Warehousing, Computer Networks, Quantitative Analysis, Artificial Intelligence

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TECHNICAL SKILLS

- **Languages:** Python, SQL, C, PHP, HTML, CSS, JavaScript
- **Data Engineering & Big Data Tools:** PySpark, AWS Cloud, Airflow, Git, GitHub
- **Databases:** SQL Server, MongoDB, Database Design, Relational Databases
- **Data Analysis & ML:** Pandas, NumPy, Matplotlib, Plotly, Excel, TensorFlow, Scikit-learn, XGBoost
- **Tools & Platforms:** XAMPP, Power BI, Tableau

ACADEMIC PROJECTS AND PUBLICATIONS

Lung Cancer Detection || Github Link || Reserach paper || **August 2024 - November 2024**
- Engineered and optimized an **ML pipeline** for lung cancer prediction, achieving **93% accuracy and 92.5% cross-validation** through robust data processing techniques.
- Applied **Synthetic Minority Over-sampling Technique (SMOTE)** to handle class imbalance, significantly **improving data robustness and minority class sensitivity by 15%**.
- **Improved model performance and prediction error by 10%** through strategic feature selection and hyperparameter tuning; research **published at INDIACom-2025**, sponsored by IEEE Delhi Section.

Fabric Defect Detection || Github Link || Reserach paper || **July 2024 - November 2024**
- Developed and evaluated a deep learning model for fabric defect detection, **achieving 83% accuracy with Faster R-CNN/EfficientNet and 79% with Swin Transformer on 2,200 images**.
- **Improved data robustness by 15%** by effectively resolving class imbalance within the dataset.
- Engineered an optimized Swin Transformer with **20% improved feature extraction**, contributing to **published research in Cuestiones de Fisioterapia.**

Food pantry || Github Link || **January 2024 - April 2024**
- Built an online food pantry platform, significantly **accelerating data flow** for donation and distribution **efficiency by 10x and increasing NGO operational capacity by 40%.**
- Streamlined backend workflows and **enhanced platform features/UI/UX by 100%**, enabling seamless donor-recipient interaction and improving overall system usability.

BMI Calculator with Diet Plan || Github Link || **August 2023 - December 2023**
- Developed a web-based BMI calculator, integrating personalized data-driven dietary recommendations that increased user engagement by **30%** and healthy lifestyle adoption by **25%**.
- Engineered a stable, mobile-responsive platform with clean UI/UX, showcasing robust system development skills.

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

Technical Administrator, Computer Society of India (CSI) – KJSIT (2024–2025)
- Recognized with a Letter of Appreciation for exemplary leadership and technical contributions.
- Led coordination for major events **(Renaissance 2024 with 110+ members, Code Odyssey 3.0 with 500+ participants)**, demonstrating strong organizational and problem-solving skills.
- Introduced structured workflows and task automation, **improving planning efficiency and reducing turnaround time by 20%**, showcasing a commitment to continuous improvement.

Smart India Hackathon 2024 – National Level
- Selected among the **Top 25** teams at KJSIT for innovation and impact in tech-driven solutions.
- Led a 6-member team to build an EdTech platform, showcasing leadership and **improving system efficiency by 80%.**

Event Head – Tic Tac Toe, CSI – KJSIT
- Organized a strategic gameplay event for 30+ participants, managing end-to-end logistics and coordination.
- Boosted engagement with interactive rounds and automated scoring for real-time feedback.

CERTIFICATION

- Earned **SQL for Data Science** certification from the University of California, Davis.
- Accomplished **Introduction to Python Programming** by the University of Pennsylvania.
- Earned a credential in Supervised Machine Learning: **Regression and Classification by DeepLearning.AI**.
- Achieved **AWS Academy Graduate** status by completing the AWS Academy Cloud Foundations course.