Muhammad Saad Nadeem

CS Undergraduate

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EDUCATION

FAST NUCES, Lahore   **2022 – 2026**
Bachelor of Science in Computer Science

EXPERIENCE

Intern at Machine Learning 1 Pvt. Limited   **July 2025 - Sep 2025**
Role - Data Science Intern   *Lahore, Punjab*
- Built an automated ID verification system using **OpenCV, Google Vision and OCR.**
- Detected facial mismatches between documents and user photos to enhance KYC accuracy.
- Attended training sessions on **Machine Learning algorithms and Deep Learning architectures.**

Intern at PITB (Punjab Information Technology Board)   **July 2024 - Sep 2024**
Role - Software Developer   *Lahore, Punjab*
- Developed 5+ back-end modules using **PHP and MySQL**, improving data handling speed by 30%.
- Developed secure login and session-based authentication systems.
- Cut **SQL** query times by 40% through optimization and indexing. created a responsive front-end using **HTML, CSS and JavaScript.**

PROJECTS

Digital Onboarding ⧉ | Python, OpenCV, OCR, Google Vision   **July 2025**
- Reduced manual data entry errors by 95% by automating personal data extraction from ID cards and passports using **Google Vision and OCR**.
- Boosted **KYC** fraud detection accuracy by 92% by developing facial recognition logic with **OpenCV** to detect mismatches between ID photos and live user images.
- Cut verification time by 60% by implementing **multithreaded** document processing to handle multiple onboarding cases in parallel.

Fruit Classification ⧉ | Python, Pytorch, iCrawler, CNN, Streamlit   **July 2025**
- Built a dataset of 1000+ images by automating image scraping using **iCrawler** to support robust training of a fruit recognition model.
- Trained a **CNN** model from scratch using **PyTorch** for fruit classification.
- Compared performance with a **ResNet8** model, analyzing accuracy improvements over the custom CNN
- Enhanced user interaction and model explainability by deploying a **Streamlit** app that displays predictions with confidence scores and visual feedback.

Fresh Bite (Website) ⧉ | React+Vite, JavaScript, Database - MongoDB, Express, Node   **April 2025**
- Increased performance by 70% by switching from Create React App to **React + Vite**, reducing front-end load times significantly, allowing users to select meal plans, customize recipes, and track orders in real time.
- Built the backend with **Node.js + Express**, handling user authentication, order processing, and admin functionalities through **RESTful APIs**.
- Used **MongoDB** for efficient data storage of users, meals, and subscriptions, and deployed the application on **Vercel** for smooth and scalable access.

Society Event Management System ⧉ | C#, SQL, .NET, HTML, CSS, JavaScript   **May 2024**
- Enabled secure role-based access for 3 user types (students, faculty, admin) by developing a **C# and .NET**-based authentication system.
- Designed and implemented dynamic front-end interfaces using **HTML, CSS, and JavaScript** for member management, event notifications, and complaint tracking.
- Improved administrative reporting capabilities by integrating **SQL** queries for real-time insights on billing, visitor logs, and complaints.

TECHNICAL SKILLS

Languages: Python, C/C++, PHP, JavaScript, SQL
Technologies/Frameworks: Django, React, MongoDB, Express, Node, OpenCV, OCR
Developer Tools: Visual Studio, VS Code, MSSQL, MYSQL, Git, Vercel, Anaconda