

Jan Mohammad

LinkedIn: [linkedin.com/in/jan-mohammad](https://www.linkedin.com/in/jan-mohammad)
GitHub: github.com/jansiddiqui

Email: janmohammad@zohomail.in
Mobile: +91-8707884735

SKILLS

- **AI/ML:** PyTorch, TensorFlow, OpenCV, Scikit-Learn, NumPy, CNN
- **Languages:** C++, Python, JavaScript
- **Backend:** Node.js, Express.js, Supabase (PostgreSQL), REST APIs
- **Database:** PostgreSQL, MySQL, MongoDB
- **Tools:** Docker, Git, GitHub, Postman

EXPERIENCE

Founder | Courage Library – Self-Paced Learning Platform Aug'23-Present

- Led backend architecture design including relational schema modeling and authentication workflows.
- Implemented scalable REST API services and secure payment processing.
- Deployed and maintained production-ready system with performance monitoring and iterative optimization.
- Coordinated feature planning and technical implementation across development team.

PROJECTS

Courage Library – Virtual Self-Paced Learning Platform | [GitHub](#) | [Live](#) Mar'26

- Designed and implemented a normalized relational database schema (PostgreSQL – Supabase) to manage users, courses, enrollments, and progress tracking with indexed queries.
- Implemented role-based authentication and authorization using Supabase Auth with protected routes and secure session management.
- Developed RESTful APIs for course management, enrollment workflows, and progress tracking with input validation and structured error handling.
- Integrated Razorpay payment gateway with server-side transaction verification and automated enrollment mapping.
- Optimized database queries and modularized backend logic to ensure scalability and maintainability.
- Designed backend supporting 50+ active users with secure role-based access control.

Tech Stack: JavaScript, Supabase (PostgreSQL), REST APIs, Razorpay, Postman

Deep Learning-Based PCB Defect Detection & Classification (CNN + Computer Vision)| [GitHub](#) Jan'26

- Developed image processing pipeline using OpenCV for image subtraction, thresholding (Otsu), and contour-based defect localization.
- Implemented ROI extraction and bounding box generation for defect segmentation.
- Trained a CNN model using Transfer Learning (EfficientNet) in PyTorch/TensorFlow for multi-class defect classification.
- Built modular backend inference pipeline to process uploaded PCB images and return annotated outputs with prediction labels.
- Evaluated model performance using accuracy metrics and confusion matrix to improve prediction reliability and reduce false positives.

Tech Stack: Python, OpenCV, NumPy, PyTorch/TensorFlow, CNN, Image Processing

TRAINING

Summer Training in Data Structure and Algorithms | LPU | [Certificate](#) Jun'25-Jul'25

- Strengthened problem-solving skills through implementation of core data structures in C++.
- Focused on time complexity analysis and algorithm optimization techniques.

CERTIFICATES

- Deep Learning for Developers – Infosys Springboard | [Certificate](#) Dec'2025
- Computer Vision – Infosys Springboard | [Certificate](#) Dec'2025
- Mastering Data Structures & Algorithms – Lovely Professional University | [Certificate](#) Jul'2025
- GfG 160 Days of Problem Solving – GeeksforGeeks | [Certificate](#) Mar'2025

TECHNICAL ACHIEVEMENT

- Solved 720+ algorithmic problems across LeetCode, GeeksforGeeks, CodeChef, and HackerRank.
- Regular practice of algorithm optimization and time complexity analysis.

EDUCATION

Lovely Professional University Aug'2023 – Present

Bachelor of Technology
Computer Science and Engineering (AI&ML) | CGPA: 6.49