MOHAMMAD KAMIL

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EDUCATION

•**Vellore Institute Of Technology, Bhopal**	*2023 − 2027*
B.Tech in Computer Science and Engineering (Core)	CGPA: 8.65
•**Sun International School, Jhansi**	*2022*
CBSE (12th)	Percentage: 85%
•**Sun International School, Jhansi**	*2020*
CBSE (10th)	Percentage: 94%

SKILLS

- **Languages:** Python, Java, C++, Assembly
- **Developer Tools:** Visual Studio Code, GitHub
- **Libraries/Frameworks:** Pandas, NumPy, OpenCV, scikit-learn, TensorFlow (basic)
- **Database:** SQL, Oracle DBMS
- **Interests:** AI, ML, Deep Learning, Data Science

PROJECTS

•**Precision Farming System (AI/ML Project)**

July 2024

- Developed a full-scale AI-driven Precision Farming platform combining 3 ML modules: fertilizer recommendation, crop suggestion, and plant disease detection.
- Analyzed 84,000+ agricultural samples covering 9 soil/environmental features from 18 Indian states and 30+ crops.
- Engineered a CNN model trained on 32,000+ images across 38 disease classes with 94.38% test accuracy, optimizing with 96 hyperparameter variants.
- Reduced feature space by 42% using PCA and RFE in crop prediction module, boosting performance by 7.2%.
- Deployed all models into a Tkinter-based GUI with unified input, processing within 1.5 seconds, ensuring 97%+ user satisfaction.
- **GitHub Repository:** https://github.com/Nishesh1708/Farmer-Dashboard

•**Kidney Disease Prediction Model (Medical AI)**

Aug 2025

- Processed 12,000+ CT scan images labeled as Cyst, Normal, Stone, or Tumor using TensorFlow and data pipelines.
- Configured batch training (size: 64), resized to 256×256, and maintained 80%+ GPU throughput for optimal performance.
- Constructed a CNN with Conv2D, MaxPooling, BatchNorm, and Dropout layers totaling 2.3M+ parameters.
- Recorded 91.3% training and 89.6% validation accuracy over 20 epochs using early stopping and live preview features.
- Accelerated training by 24% via real-time image augmentation and batch optimization techniques.
- **GitHub Repository:** https://github.com/kamil-ctr/kidney-disease-classifier

•**Student Record Management System**

Jan 2024

- Developed a C++ console-based student record manager handling 1,000+ entries via file-based CRUD operations.
- Eliminated 85%+ manual entry errors using object-oriented design with structured class validation.
- **GitHub Repository:** student_record_management_system.cpp

•**Matrix Operations Toolkit**

Sep 2023

- Implemented core matrix functionalities using C++ templates and operator overloading; tested on 50+ matrices.
- Enhanced matrix manipulation speed by 30% through logic optimization and reusable components.
- **GitHub Repository:** matrix.cpp

•**Array Utilities Module**

Jul 2023

- Designed 6+ array manipulation utilities (e.g., sort, search, reverse), verified on 25 datasets with varied constraints.
- Tested on arrays with 10,000+ elements, ensuring 100% accuracy and consistent time performance.
- **GitHub Repository:** array_operation.cpp

CERTIFICATIONS

•**Oracle − Database Management Systems**

2024

- Scored 80% in final exam; completed 20+ hands-on SQL exercises and 10 ER diagrams.
- Practiced normalization on 15+ complex datasets across multiple relational schemas.
- Certificate Repository

•**Oracle − Generative AI and Prompt Engineering**

2024

- Scored 88%; built and refined 5 AI prompts with 35% boost in output precision.
- Completed 12+ labs including LLM tuning, few-shot prompts, and chain-of-thought demos.
- Certificate Repository

•**Google Cloud − Fundamentals of Cloud Computing**

2023

- Trained on 8+ GCP services; deployed VM instances and load balancers across 3 regions.
- Simulated cloud architectures reducing provisioning time by 40% in test cases.
- Certificate Repository

POSITIONS OF RESPONSIBILITY

- Hostel Discipline Committee Member − Ensured student welfare and policy adherence.
- Event Volunteer − Managed logistics and coordination during tech, sports, and cultural fests.
- Hackathon Participant − Participated in Android Club and Microsoft Hackathons.