

Vasant Kumar Mogia

linkedin.com/in/vasant-mogia/

Phone: +91 9302609911

✉ vasant.mogia@gmail.com

🔗 myportfolio.com

🐙 github.com/DSCmatter

EDUCATION

Madhav Institute of Technology and Science

Gwalior, MP

Bachelor of Technology – Information Technology

Expected Graduation – May 2027

Relevant Coursework: Software Engineering, Operating Systems, Data Structures and Algorithms, DBMS

Computer Networks, Compiler Design, Cloud Computing

WORK EXPERIENCE

Madhav Institute of Technology and Science

Gwalior, MP

Student Researcher

Aug 2025 – Present

- Engineered a custom image dataset of 5,000+ dry fruit images.
- Developed a dry fruit classification model using a ResNet50 architecture and TensorFlow, achieving 98.5% accuracy on the test set.
- Linked model predictions with nutritional fact sheets to provide calorie estimates for each type of dry fruit.

Association for Computing Machinery (ACM)

Gwalior, MP

Technical Team Member

Oct 2024 – Present

- Revamped the registration system with a centralized database, which improved outreach and led to 20% increased attendance at inter-college events.
- Created and delivered hands on workshops on Git, Linux and API designs for 50+ participants.
- Mentored peers on Git and GitHub best practices by conducting code reviews and providing feedback.

PROJECTS

MyRedis

Go, Bash

- In-memory key-value store with RESP protocol parsing and support for core Redis commands like SET, GET, DEL, HSET and more.
- Concurrent client connections handled using goroutines for multi-threaded server performance.
- Append Only File (AOF) mechanism added for crash recovery and persistence.

AWS Serverless Email Marketing

AWS (Lambda, SES, S3, EventBridge, IAM), Python, HTML/CSS

- Serverless email marketing system built on AWS, eliminating manual email setup.
- Template and contact merging optimized in Lambda, reducing email prep time from hours to minutes.
- Scheduling automated emails with EventBridge; IAM policies enforced for least-privilege access.

PageCritic

TypeScript, Node.js, Express.js, PostgreSQL

- RESTful book review API with over 15 distinct endpoints for book listings, user management, and reviews.
- Secure authentication with JWT and data stored in PostgreSQL for reliable persistence and retrieval.
- Supports user registration, book listing, review submission, and real-time average rating updates.

TECHNICAL SKILLS

Languages: Python, C++, TypeScript, Go, SQL, HTML/CSS

Frameworks & Tools: Node.js, Express.js, Docker, Git, Bash, Linux

Cloud & Databases: AWS, Firebase, PostgreSQL, Redis