

Misbha Falak Khanpagadi

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LinkedIn — GitHub — Portfolio

Summary

BCA graduate with hands-on experience building and deploying full-stack, backend, data-driven, and AI-powered applications. Experienced with Python, JavaScript, FastAPI, Node.js, React.js, Next.js, SQL, PostgreSQL, MongoDB, REST APIs, and AI/ML technologies. Skilled in developing backend services, database-driven applications, API integrations, data processing workflows, and intelligent applications through academic, internship, and personal projects. Strong problem-solving and analytical abilities with experience in debugging, testing, data validation, documentation, and learning new technologies quickly.

Technical Skills

Programming Python, JavaScript, SQL

Frontend Development React.js, Next.js, HTML, CSS, Responsive Web Development

Backend Development FastAPI, Node.js, Express.js, REST API Development, Backend Services

Databases PostgreSQL, MySQL, MongoDB, SQL Queries, Joins, CRUD Operations, Database Design, Data Modeling

APIs Integration REST APIs, API Integration, JSON, API Testing, OpenAI API, Gemini API, Workflow Automation

Data Analytics Data Processing, Data Cleaning, Data Validation, Data Transformation, Exploratory Data Analysis, Data Visualization, Power BI

AI Machine Learning Machine Learning, Generative AI, NLP, Computer Vision, Data Preprocessing, Model Evaluation, AI Applications

Development Tools Git, GitHub, VS Code, Postman, Jupyter Notebook

Software Engineering Debugging, Error Handling, Testing Fundamentals, Problem Solving, Technical Documentation, API Development

Professional Skills Analytical Thinking, Communication, Teamwork, Adaptability, Attention to Detail, Time Management, Quick Learning

Education

KLE Technological University , Hubli	2023 – 2026
Bachelor of Computer Applications (BCA)	CGPA: 9.45

Nehru College , Hubli	2021 – 2023
Pre-University (Science)	83%

Experience

Center of Excellence in Visual Intelligence (CEVI)	2026
Machine Learning & Computer Vision Intern	

- Engineered an AI-based reflection removal solution using deep learning, computer vision, and image preprocessing techniques.
- Evaluated deep learning models on real-world datasets and contributed to image restoration workflows for the **NTIRE 2026 Reflection Removal in the Wild Challenge**.
- Acquired hands-on experience in Machine Learning, Computer Vision, Augmented Reality (AR), Virtual Reality (VR), and model evaluation methodologies.

Projects

GlassClear – Automated Glare & Reflection Removal System	GitHub
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- Engineered a full-stack AI application for single-image glare and reflection removal using an RDNet-based deep learning pipeline.
- Implemented FastAPI backend services for image upload, inference, processing history, and export workflows.
- Designed an interactive React-based interface with before/after comparison and confidence-map visualization.
- Achieved **PSNR 34.514**, **SSIM 0.9746**, and **LPIPS 0.025** on reflection removal benchmarks.

AI Mock Interview Platform	GitHub
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- Designed an AI-powered interview preparation platform using React.js, FastAPI, and Generative AI.
- Implemented REST APIs for interview management, response evaluation, and personalised feedback generation.
- Integrated NLP techniques to analyse candidate responses and improve interview readiness through automated assessments.

DisasterLink – Human Mobility & Rescue Platform	GitHub
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- Built a MERN-based disaster response platform supporting SOS request management and volunteer coordination.
- Integrated OpenStreetMap and Leaflet.js for real-time location tracking and interactive disaster mapping.
- Developed backend APIs to manage emergency requests, rescue coordination, and disaster information services.

Achievements

- Participated in the **NTIRE 2026 Reflection Removal in the Wild Challenge** as part of the **KLETech-CEVI** research team, working on an AI-based image reflection removal system.
- Built and deployed multiple **AI-powered, backend, and full-stack applications** using Python, FastAPI, React.js, Node.js, MongoDB, and PostgreSQL.
- Achieved strong results in the **GlassClear** reflection removal project, developed as part of the KLETech-CEVI research team and evaluated using standard image restoration metrics.

Certifications

- **Introduction to SQL** — Simplilearn, 2025
- **Python for Beginners** — Simplilearn, 2025
- **Agentic AI Certified Foundations Associate** — Oracle, 2026
- **Foundations of Prompt Engineering** — Amazon Web Services (AWS), 2026
- **Career Essentials in Generative AI** — Microsoft and LinkedIn, 2026