

Gurunathagouda M Biradar

[Github](https://github.com/gurunathasmb) [Portfolio](#) [LinkedIn](#) [8197736731](#) [Email](mailto:gurunathagoudambiradar@gmail.com)

SKILLS

Languages: C++, Python (ML), Java, JavaScript, SQL

Tools: Git, GitHub, VS Code, MongoDB, Google Colab, Jupyter

Technologies: Machine Learning, Deep Learning, Generative AI, Reinforcement Learning, Full-Stack Development

Frameworks/Libraries: PyTorch, TensorFlow, OpenCV, MERN, Streamlit, Flask, FastAPI, Pandas

EXPERIENCE

Nokia — Machine Learning Intern

- Developed ML-based radio propagation loss models using RF theory + regression.
- 4G/5G signal prediction accuracy with FSPL, Hata, COST-231 models.
- Built automated evaluation pipeline for network performance monitoring.

Aug 2025 – Dec 2025

Techmiya Solutions — Intern

- Developed full-stack modules with machine-learning-enabled features.
- Built API-driven automation components to support intelligent workflows.
- Enhanced UI responsiveness and backend performance across features.

Jul 2025 – Sept 2025

Nuverea Infotech — Intern

- Built MERN-based admin dashboard for real-time analytics and management.
- Developed dynamic UI components improving interactivity and usability.
- Optimized MongoDB queries for fast, scalable data operations.

Jan 2024 – Jul 2024

PROJECTS

AI-powered Lip-Sync Avatar — Python, PyTorch, Wav2Lip, OpenCV, FFmpeg, pyttsx3 — [Link](#) Jun 2025 – Aug 2025

- Developed an end-to-end lip-sync generation system that animates static face images to match input audio using Wav2Lip model.
- Integrated face detection, cropping, alignment, and audio preprocessing pipeline using OpenCV and librosa.
- Used pretrained Wav2Lip models and optimized inference pipeline for faster frame generation and reduced latency.
- Automated video assembly using FFmpeg to combine synthesized lip movements with original frames and audio.
- Applications include virtual assistants, AI anchors, educational avatars, and accessibility tools for speech disabilities.

Planova – Project Management Platform — TypeScript, React, MERN — [Link](#)

Feb 2025 – May 2025

- Built a full-stack project management platform enabling task creation, assignment, team collaboration, and progress visualization.
- Implemented user authentication, role-based access control (Admin/Manager/Member), and secure API access using JWT.
- Designed Kanban-style workflow UI with drag-and-drop for task states (To-do → Ongoing → Completed).
- Deployed API backend with Node.js/Express and optimized MongoDB queries for faster response times.

Deepfake Detection System — TensorFlow, OpenCV, Scikit-learn — [Link](#)

Feb 2025

- Developed a deepfake classification pipeline for real vs fake face images using CNN-based feature extraction feature selection.
- Used VGG16 pretrained model to extract high-dimensional deep features from images, improving representation quality.
- Applied Modified Grasshopper Optimization (MGO) to select the most discriminative features and improving accuracy.
- Implemented full pipeline: preprocessing, augmentation, feature extraction, selection, training, evaluation .

CERTIFICATIONS

Infosys: Artificial Intelligence Foundation Certification, Explore Machine Learning using Python

Microsoft: Career Essentials in Generative AI course by Microsoft and LinkedIn!

Google Cloud: Google Cloud Engineering Certificate

Oracle: Oracle Generative AI Professional Certification

NPTEL: Reinforcement Learning

EDUCATION

Dayananda Sagar College of Engineering

2022 – 2026

B.E. Artificial Intelligence and Machine Learning

CGPA: 8.67/10

ACHIEVEMENTS

Tech Member and Core Team Lead – DSCE

- Contributed to official event websites and ensured smooth execution of department events.
- Led the technical planning and execution of Aventus 3.0, a national-level hackathon with 660+ team registrations, marking a 600% increase from the previous edition. Event was ranked #1 globally on Devfolio for three consecutive days. Managed team shortlisting, platform setup, and all key technical operations.