REEM K

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EDUCATION

ATME COLLEGE OF ENGINEERING | *BE-CSE-AIML* Mysore, Karnataka |**12/ 2022 – Present**
University: Visvesvaraya Technological University (VTU) **CGPA**: 9.15/10 (Till 6th sem)

SKILLS SUMMARY

Languages	: Python (Advanced), C (Intermediate), Java(Advanced)
Tools & IDEs	: VS Code, Google Collab, Git,
Frameworks & Tech	: Machine Learning, TensorFlow, Keras, Fast API, OpenCV, Docker
Database & Version Control	: MySQL, MongoDB, PostgreSQL (Supabase), Firebas, Git, GitHub
Interpersonal Skills	: Problem Solving, Leadership, Public Speaking, Teamwork

PROJECT

Loan Eligibility Prediction System| *Python, Flask, Supabase, Random Forest, XGBoost, Deepchecks, Docker* | **Project Link** **06/2025**

- Engineered a production-grade ML pipeline to predict loan approvals, integrating Supabase PostgreSQL, Flask REST API, and Docker for end-to-end deployment.
- Trained Random Forest and XGBoost models on real-world financial data, achieving AUC: 0.89 and F1-Score: 0.82.
- Implemented data/model drift detection using Deepchecks, with auto-generated logs, reports, and model assets stored in a modular artifacts/ directory.

StreeRaksha – Real-Time Women's Safety & Crowd Monitoring System | *Python, YOLOv5, DeepSORT, FastAPI, Firebase, Supabase, OpenCV* | **Project Link** **04/2025**

- Engineered a real-time AI system tackling public safety by detecting crowd patterns, classifying gender, and sending automated alerts to authorities.
- Combined object tracking (YOLOv5 + Deep SORT) with a live dashboard to identify high-risk zones and prevent incidents before they escalate.
- Delivered real-world impact through smart alerts (via FCM/Twilio) and real-time data syncing with FastAPI, Supabase, and Redis.

Lung Disease Classification System | *Python, TensorFlow, Keras, VGG-19, CNN* **| Project Link** **02/2025**

- Developed a deep learning-based diagnostic tool for classifying chest X-ray images into four categories: Normal, COVID-19, Pneumonia, and Tuberculosis.
- Utilized transfer learning with the VGG-19 model and a dataset of 8,000 X-ray images to achieve a test accuracy of 95.75%.
- Demonstrated the potential of AI in healthcare by supporting early and accurate detection of lung diseases, aiding in timely treatment and disease management.

CERTIFICATES & EXTRACURRICULAR

- Python for Data Science-Silver Medal, NPTEL, **Certificate Link** **02/2024**
- Ethical Hacking-Silver Medal, NPTEL**, Certificate Link** **10/2024**
- Building LLM Applications With Prompt Engineering**, NVIDIA, Certificate Link** **05/2025**
- **Technical Achievements**: Runner-Up, CodeBattle Hackathon – *KLS VDIT, Haliyal* **04/2025**
- **Leadership Experience**: **Documentation Head**, IET ATME College of Engineering **2025**
- **Active IET and IEEE member,** Organized Tech Avishkar 2.0, a 200+ participant national hackathon with workshops and expert talks.