

Amoggha C H

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Enthusiastic final-year AI & ML Engineering student seeking opportunities to apply theoretical knowledge and gain hands-on industry experience. Driven to learn quickly and advance computer proficiency, with training in industry operations. A flexible, hardworking team player focused on boosting productivity and performance through a conscientious and detail-oriented approach

EDUCATION

Ramaiah Institute Of Technology,,

B.E. Artificial Intelligence and Machine Learning, CGPA: 7.69

2025 | Bengaluru, India

NARAYANA P.U COLLEGE, Pre-University, Percentage: 87.1%

2019 | Bengaluru, India

SJRKPS, High School, ICSE Board, Percentage: 86.7%

2017 | Bengaluru, India

CERTIFICATIONS

Stanford Online and Coursera — Machine Learning Specialization

UI Path Academy — Automation Developer Associate Training.

NITK, Surathkal — Machine Learning & Deep Learning Using Python Programming

Infosys, Springboard — Introduction to Artificial Intelligence

PROFESSIONAL EXPERIENCE

IBM, Intern [From Jan - June 2025]

2025

Samsung Prism, Noise Model Synthesis using AI Denoising for RAW images worklet, Intern (Ongoing)

Apr 2024 – Dec 2024

L&T Defence, Anomaly Detection, Paid Project Intern ☞

Mar 2024 – Oct 2024

NITK, AI Quantum Solutions, Python Programming, Image Processing and Machine Learning, Intern ☞

Apr 2024 – May 2024

Bharat Electronics Limited, Advanced Defense Systems and Navy Department, Intern ☞

Oct 2023 – Nov 2023

SKILLS

Programming Languages: (Python; C++; Java;) • **Deep Learning** (TensorFlow, Keras, Pytorch, CNTK) • **Machine Learning** (Scikit-Learn, XGBoost) • **Data Visualization** (Matplotlib, Seaborn) • **Rest API** • **RPA Developing** (UI Path Studio) • **Data Manipulation and Analysis** (Pandas, NumPy) • **FrontEnd Web Developing** (CSS, HTML) • **Android Development** (Android Studio) • **UI/UX design** (Web&Application Design Using Figma) • **Teamwork and Presentation skills** • **Effective communication**

PROJECTS

Anomaly Detection in Naval Ship Operations: [2024] *Tool-* Image Generation, Computer Vision, Anomaly Detection, Synthetic Data Generation, Pytorch

- While interning at L&T Defence, I developed an anomaly detection system for naval ship operations and created a robust Synthetic Data Generation pipeline for side-scan sonar. The project focused on detecting operational anomalies and recognizing objects on PCB components, enhancing the reliability and efficiency of naval vessels through deep learning and machine learning techniques. The model achieved a low loss value of 0.0096, indicating that it learned the image data effectively and accurately

AI-Assisted Food Advisor: FoodVisor: [2024] *Tool-* Python, CSS, OCR, HTML, Flask

- FoodVisor is a web app that uses AI to provide personalized dietary advice based on users' medical reports. It allows users to scan product details and inquire about food suitability, offering tailored recommendations.

Deep Learning Algorithms for Breast Cancer Detection: [2024] *Tool-* Python, CSD-CNN, Image Classification

- During my summer internship at NITK Surathkal, I developed a Class Structure-based Deep Convolutional Neural Network, achieving 91.2% accuracy in classifying histopathology images as Malignant or Benign using a Kaggle dataset, demonstrating the effectiveness of deep learning in medical image analysis.

AI-Integrated Fire Disaster Management System: Real-Time Hazard Detection, Safe Exit Route Planning, and Rapid Response Optimization: [2024] *Tool-* Python, CSS, HTML, Desmoking Algorithm, Safe Escape Paths

- Developed in under 24 hours for a hackathon, our AI-driven Fire Disaster Management System detects hazards, alerts residents, and optimizes rescue routes with safe escape paths. It features a desmoking algorithm for live surveillance to remove smoke and detect humans. Seamlessly integrated into a website,

Language Learning: Kannada Kali, Kannada Bari: [2024] *Tool-* Python, CSS, HTML, Flask, RESTful API, Engaging Gaming Component

- Developed a web app for practicing Kannada letters, featuring a hybrid model (VGG16 and ResNet50) with 93% accuracy in classifying handwritten characters, along with an engaging gaming component to enhance learning. Contributed to model building, game development, and website integration.

Fine-Tuning Whisper AI Speech Transcription for Regional Indian Language: [2023] *Tool-* Python, NLP, Speech Transcription

- Customized Whisper AI for Punjabi speech transcription, enhancing accuracy and efficiency in converting spoken dialects. Fine-tuned algorithms capture nuances for precise transcriptions, ensuring seamless integration into Punjabi language applications.

Finding and detecting veins through LED Infra-Red radiations [2014] *Tool-* Matlab, Camera, Innovation

- The project utilizes infrared radiation to detect veins and processes the resulting images in MATLAB to enhance visibility and isolate veins from surrounding tissue. This non-invasive and accurate method aims to improve vein identification for medical procedures such as venipuncture

LANGUAGES

English — Fluent

Kannada — Fluent

Hindi — Proficient

INTERESTS/ACHIEVEMENTS

Karate [State Level Kata Champ] • Weight Training •

Hackathons • Member, Inferno Dance Club • Trekking