

Ramya Bagepalli

📍 United Kingdom ✉ ramyab4803@gmail.com ☎ +44 77429 25816 🌐 ramyab48.com in ramyabagepalli
📱 RamyaB48

Professional Summary

A postgraduate student at the **University of Southampton**, pursuing a **Master's in Artificial Intelligence**. Holds a **Bachelor's degree in Computer Science and Engineering with Honours** with strong foundations in **Artificial Intelligence, Machine Learning, Deep Learning, and Cybersecurity**. A confident communicator with natural leadership qualities, excellent time management, and multitasking skills. Passionate about leveraging AI to solve real-world challenges and open to collaborative research and innovation opportunities.

Technical Skills

- **Programming Languages:** Python, Java, C++, C
- **AI & Machine Learning Frameworks:** TensorFlow, Keras, PyTorch, Scikit-learn
- **Deep Learning & Computer Vision:** OpenCV, CNNs, RNNs, Transfer Learning, Image Processing
- **Data Science & Analytics:** NumPy, Pandas, Matplotlib, Seaborn
- **Natural Language Processing:** NLTK, spaCy, Transformers
- **Model Deployment & MLOps:** Flask, FastAPI, Docker, AWS
- **Databases:** MySQL, Firebase, MongoDB, NoSQL
- **Tools & Environments:** Git, Jupyter Notebook, Google Colab, VS Code, Cursor, Anaconda, Hugging Face

Education

- University of Southampton** *Sept 2025 – Sept 2026*
MSc in Artificial Intelligence
- **Coursework:** Machine Learning Technologies, Deep Learning Technologies, Computer Vision, Image Processing, NLP, Intelligent Agents
- Global Academy of Technology** *Dec 2021 – July 2025*
B.E. in Computer Science and Engineering with Honors
- CGPA: 8.88/10.0
 - **Coursework:** Operating Systems, Software Engineering, Data Structures, Computer Networks, Big Data Analytics, AI ML, Ethical Hacking, Digital Image Processing, Human Computer Interaction

Internships

- AI and IOT Engineer Intern** *Bangalore, India*
Sathyalogy Solutions Ltd. *2025*
- Worked on projects related to sensor integrations, machine learning deployment and automation solutions in IOT deployment.
- Cyber Security Intern** *Bangalore, India*
Ace Designers Ltd. *2024*
- Conducted Vulnerability Assessment and Penetration Testing on various networks, IP addresses, and websites to identify various potential security weaknesses.

Publications

- Assessing the Impact of Regularization and Optimizers on CNN for Human Emotion Detection: An Evaluation Approach**(Journal) *Mar 2025*

Projects

Crafting and Interpreting Forensic Face Illustrations 2025

- Developed a two-part forensic facial illustration system comprising a sketch recognition module that matches uploaded sketches with a facial database using image processing.
- Built a face crafting tool enabling users to create composite faces from verbal descriptions using modular facial features. Integrated computer vision and user interaction for real-world forensic applications.
- **Tools Used:** Python, OpenCV, TensorFlow, Keras

Plant Disease Detection 2024

- Developed a machine learning model to detect and classify plant diseases from leaf images using convolutional neural networks (CNN).
- Implemented preprocessing and image augmentation techniques for improved accuracy and robustness.
- **Tools Used:** Python, TensorFlow, Keras, OpenCV

Human Emotion Detection 2024

- Designed a deep learning model to classify human emotions from facial expressions in images and videos.
- Utilized CNN architectures for feature extraction and emotion categorization.
- **Tools Used:** Python, TensorFlow, Keras, OpenCV

Chatbot – Food Delivery App 2022

- Built an interactive chatbot system for food delivery with real-time response and menu selection capabilities.
- Enhanced user interaction using natural language processing for smooth order handling.
- **Tools Used:** Python, Flask, NLP, Dialogflow

Airline Reservation System 2021

- Developed a Java-based airline reservation system for real-time seat booking and customer management.
- Implemented flight scheduling, booking confirmation, and user-friendly interface for seamless operation.
- **Tools Used:** Java, MySQL

Achievements and Certifications

- Completed a **Value-Added Program on Deep Learning** at Global Academy of Technology.
- Recognized for excellence in leadership as **Core Head for College Fest – Interact (2022–2024)**. Served as **Sports Head** for department fest – Genesys 3.0.
- Represented institution as a **National-Level Netball and Cestoball Player**.
- **Certificate of Achievement for Excellence in Sports** for three consecutive years for participation in district, state, and national level tournaments.
- Participated in **Community Services** including educating children in government schools, promoting awareness on rainwater harvesting, food packaging, and cleanliness awareness programs.
- Completed multiple certifications in **Cybersecurity, Data Science, Machine Learning, and Deep Learning** through **Infosys Springboard, IBM, and Global Academy of Technology**.
- Awarded **Python and Java Programming Certificates** from **Verzeo (Microsoft)** and **Infosys Springboard**.