

Rohit Krishnan

+44 7874 368066

✉ rohit.k.kesavan@gmail.com

🌐 rohitkrishnan-com.vercel.app

**Company Recruitment team**

Company, Inc.

123 somestreet

some city

January 01, 1984

Dear Sir or Madam,

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis ullamcorper neque sit amet lectus facilisis sed luctus nisl iaculis. Vivamus at neque arcu, sed tempor quam. Curabitur pharetra tincidunt tincidunt. Morbi volutpat feugiat mauris, quis tempor neque vehicula volutpat. Duis tristique justo vel massa fermentum accumsan. Mauris ante elit, feugiat vestibulum tempor eget, eleifend ac ipsum. Donec scelerisque lobortis ipsum eu vestibulum. Pellentesque vel massa at felis accumsan rhoncus.

Suspendisse commodo, massa eu congue tincidunt, elit mauris pellentesque orci, cursus tempor odio nisl euismod augue. Aliquam adipiscing nibh ut odio sodales et pulvinar tortor laoreet. Mauris a accumsan ligula. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Suspendisse vulputate sem vehicula ipsum varius nec tempus dui dapibus. Phasellus et est urna, ut auctor erat. Sed tincidunt odio id odio aliquam mattis. Donec sapien nulla, feugiat eget adipiscing sit amet, lacinia ut dolor. Phasellus tincidunt, leo a fringilla consectetur, felis diam aliquam urna, vitae aliquet lectus orci nec velit. Vivamus dapibus varius blandit.

Duis sit amet magna ante, at sodales diam. Aenean consectetur porta risus et sagittis. Ut interdum, enim varius pellentesque tincidunt, magna libero sodales tortor, ut fermentum nunc metus a ante. Vivamus odio leo, tincidunt eu luctus ut, sollicitudin sit amet metus. Nunc sed orci lectus. Ut sodales magna sed velit volutpat sit amet pulvinar diam venenatis.

Albert Einstein discovered that  $e = mc^2$  in 1905.

$$e = \lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$$

Yours faithfully,

**Rohit Krishnan**

*Attached: curriculum vitae*

# Rohit Krishnan

AI/ML Engineer

+44 7874 368066  
✉ rohit.k.kesavan@gmail.com  
🌐 rohitkrishnan-com.vercel.app  
in rohit-krishnan25  
🔗 Cogniveon

## Profile

A dedicated and dynamic AI/ML Engineer, I am currently enriching my expertise through an MSc in Artificial Intelligence at the University of Surrey. My academic and professional journey is marked by a strong commitment to tackling complex challenges and delivering innovative solutions. Specialized in various web-technologies and AI, I excel in not only grasping new technologies rapidly but also in applying them effectively in project environments.

My collaborative spirit stands out as I enjoy contributing to team efforts and continuously seek avenues for skill enhancement. This blend of technical prowess, proactive approach to learning and adaptability positions me uniquely for roles that require both the depth and breadth in Computer Vision and Machine Learning.

## Experience

Oct 2023 – **Part-Time Research Assistant**, *University of Cambridge, UK*

Present ○ Contributing to innovative projects in Digital Manufacturing & Infrastructure Digital Twins

○ Demonstrated ability to combine theoretical knowledge with hands-on experience.

○ Key contributions:

- Developed a sample tracking solution for a histopathology lab, addressing the challenge of enhancing label visibility in images through preprocessing with OpenCV. Employed fine-tuned and pre-trained CNN models (YOLOv8) to extract precise bounding boxes around sample labels, and applied OCR (Optical Character Recognition) to extract vital sample information from these labels, streamlining the sample tracking process.
- Optimized and containerized machine learning models (using Docker and Python), enabling their efficient deployment on Raspberry Pi microcontrollers.
- Maintained a React-based frontend that effectively visualizes the digital twin of a hospital for enhanced operational insight and management.

May 2022 – **Senior Software Engineer**, *Tiatech Health Technologies, India*

Jul 2023 ○ Commenced my career journey at Tiatech as a Software Engineering Trainee, demonstrating exceptional skills and dedication by transforming "Tialmage", a radiology image viewer, impressing both company stakeholders and clients with the enhanced product UI/UX which resulted in a rapid promotion to Senior Software Engineer within just 3 months.

○ I was assigned to a dynamic 5-member team in the development of Python microservices, widely adopted by more than 30 hospitals for DICOM imaging and analysis, as well as teleconferencing solutions for collaborative consultations over the internet.

○ Conducted thorough research and implemented necessary modifications to ensure compliance with ONC certification for US markets, effectively meeting the stringent g10 and c1 certification criteria, further solidifying the company's commitment to quality and regulatory standards.

July 2019 – **Summer Intern**, *Jaldee Soft Pvt Ltd, India*

August 2019 ○ Successfully completed a Summer Internship at Jaldee Soft Pvt Ltd, where I played a pivotal role in developing well-tested services for an Angular frontend to communicate with a Java Spring Boot backend.

○ Worked collaboratively with the team, utilizing Agile methodologies with Jira for efficient project management, and embraced Test-Driven Development (TDD) principles to ensure code quality and maintainability.

○ Gained invaluable hands-on experience early in my career, enhancing my software development skills and contributing to real-world projects.

## Education

- 2023–Present **MSc Artificial Intelligence**, *University of Surrey*, Guildford
- Specialization in Computer Vision, Deep Learning and Natural Language Processing
  - Gained a robust understanding of machine learning fundamentals and the importance of ethical considerations in AI applications
- 2018–2022 **Bachelor of Technology in Computer Science**, *Neusoft Institute of Technology*, Guangdong
- Achieved a high GPA of 3.94, reflecting consistent dedication to my studies. Recognized as one of the top performers in my batch, evidencing my strong commitment to excellence in the field of computer science.
  - Bachelor thesis on a serverless e-commerce platform to evaluate how small-scale businesses can maintain cost-effective online operations.
  - Excelled in key courses such as:
    - Fundamentals of Programming (Java): Scored 100/100
    - Data Structures and Algorithms: Scored 92/100

## Projects

- Title **Developing Realistic Human interactions with SMPL and Motion-GPT**
- Description Master's thesis project focused on the Skinned Multi-Person Linear (SMPL) model, a widely used human avatar framework, in conjunction with Motion-GPT, a generative transformer model, to create and analyze highly realistic human motions and interactions.
- Title **Digital Manufacturing on a Shoestring**
- Description Hands-on experience at the University of Cambridge, where I participated in successfully deploying modularized components of the Shoestring architecture, showcasing expertise in Docker and Python scripting for streamlined and low-cost digital manufacturing implementations.
- Title **Infrastructure Digital Twins**
- Description Implemented sample tracking solutions for a histopathology lab as a research assistant at the University of Cambridge by leveraging computer vision and machine learning techniques, enhancing efficiency and accuracy in sample management.

## Skills

- Languages Python, Java, JavaScript/TS, Rust, C, Scala, PHP
- μ Controllers ESP32-S2 and later, RP2040, nRF54, STM32 series
- Frameworks PyTorch, YOLO (ultralytics), Scikit-learn, NextJS (React.js framework), Angular, Django, FastAPI, Spring boot, Laravel, React Native, VueJS, PySide (QT Framework), JavaFX, OpenGL, ESP-IDF
- Databases PostgreSQL, MongoDB, DynamoDB, Redis, InfluxDB, MySQL
- Cloud/Tools AWS, GCP, Figma, Docker, Kubernetes, Git/Gitlab (automation and versioning), JIRA
- Soft-skills Hardworking, Excellent Communication skills, Positive and ready-to-learn mindset

## Honor and Awards

- 2022 Excellent Graduate Award for academic and athletics performance during my bachelors.
- 2018 Ranked first in 12th Grade Computer Science 98%
- 2017 Voted as the School Agni House Captain. Played a major role in orchestrating team activities and fostering a competitive and collaborative environment among students.
- 2016 Ranked first in 10th Grade Computer Science 99% and French

## Languages

- |           |                                 |           |                                 |
|-----------|---------------------------------|-----------|---------------------------------|
| English:  | Native or Bilingual proficiency | Hindi:    | Native or Bilingual proficiency |
| Japanese: | Beginner proficiency            | Mandarin: | Beginner proficiency            |