

ANKUR KOHLI

SOFTWARE ENGINEER



+39-3452-355-116 | ankurkohli1997007@gmail.com

[ankurkohli007](#) | [ankur-kohli-7a5865157](#) | [Ankur-Kohli-4](#)

ANKUR KOHLI - PORTFOLIO | Genoa, Italy

Software Engineer with expertise in Python, C/C++, JavaScript, ReactJS, Dart, Flutter, Java, Tailwind CSS & API driven distributed systems, focused on advanced technologies.

ABOUT ME

Software Engineer with experience building production grade systems across frontend and backend for an Italian MediaTech industry. Specialized in scalable, API driven architectures with real time capabilities, including the integration of AI and GenAI/LLM solutions. Focused on performance, clean design principles, and maintainable code. Proven ability to collaborate in cross functional teams and contribute across the full development lifecycle, delivering reliable, high quality software.

PROFESSIONAL EXPERIENCE

• Software Engineer

April 2025 - October 2025

NTT DATA Italia

Italy

- Developed and managed cross platform application with a responsive frontend and realtime, multithreaded backends, enabling secure low latency communication across distributed components.
- Led the development and deployment of an autonomous NAV2 SLAM system, implementing automated workflows that were tested on a physical robot and enabled consistent deployment across environments.
- Implemented structured testing, validation, and debugging pipelines using GitLab CI/CD to ensure reliable integration and consistent runtime behavior.
- Contributed to system architecture, technical documentation, and agile collaboration, translating research driven concepts into production ready systems.

• Software Engineering Thesis Project

June 2023 - February 2024

NTT DATA Italia

Italy

- Designed and optimized real time multithreaded robotic architectures for efficient coordination.
- Built containerized ROS2 SLAM pipelines for mapping and navigation with consistent deployments.
- Integrated automated testing and CI/CD workflows to ensure continuous validation and system stability.
- Produced technical documentation to support maintainability, scalability, and team collaboration.

PROFESSIONAL SKILLS

TECHNICAL SKILLS

Programming Languages:

Python, C/C++, Java, Dart, JavaScript

Frontend Technologies:

HTML5, CSS3, ReactJS, Bootstrap, Tailwind CSS

GenAI & LLM Engineering:

LLM, RAG, LlamaIndex

Backend & APIs:

JSON, WebSocket Services, REST, RESTful

Software & Tools:

Ubuntu/Linux, Docker, Git/GitLab, Flutter, CI/CD Pipelines, VS Code

SOFT SKILLS

Leadership & Planning:

Strategic Planner, Project Management, Mentoring

Innovation & Problem Solving:

Creative Spirit, Concept Development

Teamwork & Collaboration:

Conflict Resolution, Reliable, Organized

CERTIFICATIONS

- **Google Cloud: Prompt Design in Vertex AI** February 2026
- **Microsoft: Azure Fundamentals** November 2025
- **Google Cloud: Responsible AI: Applying AI Principles with Google Cloud** January 2025
- **Google Cloud: Introduction to Large Language Models** January 2025
- **Google Cloud: Introduction to Responsible AI** January 2025
- **Google Cloud: Innovating with Google Cloud AI** December 2024
- **Google Cloud: Introduction to Generative AI** October 2024
- **Amazon Web Services (AWS): Introduction to Machine Learning: Art of the Possible** September 2024

EDUCATION

- **M.Sc Computer Engineering (Specialization: Robotics Engineering)** September 2021 - March 2024
University of Genoa Italy
- **B.Tech Mechatronics Engineering** July 2016 - June 2020
University of Petroleum & Energy Studies India

PROJECTS

- **Frontend Portfolio**
 - **ResumiAI: Next-Gen Career Intelligence Platform:** Designed and developed a cost efficient, AI assisted resume analyzer using React.js, Tailwind CSS, and Puter.js, providing semantic resume JD matching, ATS focused insights, skill gap analysis, and GenAI driven improvement suggestions. [🔗]
 - **SkyScope Live Weather Dashboard with API Integration:** Built an interactive realtime weather application using JavaScript, Bootstrap, and WeatherAPI, implementing dynamic UI rendering, weather based animations, and API driven data workflows to enhance user experience and performance. [🔗]
- **Artificial Intelligence Portfolio**
 - **Automated Warehouse Scenario Using PDDL 2.1:** This project aims to create an AI planning warehouse optimization system that enhances order management, storage efficiency, and logistics through advanced planning, priority queues, plan graphs, and realtime analytics. [🔗]
 - **Task and Motion Planning for Robotics in Coffee Shop Scenario:** Integrate task and motion planning for robotic navigation using PDDL, state-space graphs, BFS, heuristic search, and Euclidean distance. [🔗]
- **Machine Learning Portfolio**
 - **Cervical Cancer Detection using CNNs and VGG16 Module - TensorFlow:** The objective is to deploy Deep learning based cervical cancer detection using VGG16 Convolutional Neural Network (CNNs) in TensorFlow with comprehensive preprocessing, training, and evaluation. [🔗]
 - **Convolutional Neural Networks (CNNs) to Process an Image - PyTorch:** The goal of this experiment is to implement Convolutional Neural Networks (CNNs) in Jupyter/Python using PyTorch for efficient image processing and analysis with deep learning techniques. [🔗]
- **Robotics Portfolio**
 - **Software Architecture for Mobile Robot Control:** This project involves controlling a ROS based mobile robot using graph based routing with Dijkstra's algorithm in Python. [🔗]

HOBBIES

- Photography
- Hiking
- Chess
- Cricket
- Traveling
- Driving

LANGUAGE

- **English:** Proficient
- **Italian:** Limited working proficiency

REFEREE

Claudia Lunini
Lead of Smart Robotics, NTT DATA Innovation Center
NTT DATA Italia S.p.A
Email: claudia.lunini@nttdata.com
Relationship: Advisor

Marco Monforte
Senior Software Engineer
NTT DATA Italia S.p.A
Email: marco.monforte@nttdata.com
Relationship: Supervisor