Ankur Mali

Rhinstrasse 79, 10315 Berlin, Germany
+49 172 5370394
ankurmali02@gmail.com
LinkedIn
GitHub

Engineering Technology professional skilled in AI, machine learning, and full-stack development, experienced in building AI-driven dashboards and scalable web applications. Also proficient in robotics projects, including 3D printing and vision-based sorting systems. Visit my portfolio at ankurmali.com

EDUCATION

SRH Berlin University of Applied Sciences, Germany — *Masters in Engineering and Sustainable Technology Management*

Oct 2023 – Present

Focus: Industry 4.0, Automation, Robotics & AI.

GPA: 1.7

C-DAC, Mumbai, India — *Post Graduate Diploma in Advanced Computing*

Mar 2023 – Aug 2023

Grade: A

Sharad Institute of Technology College of Engineering, India — *B.Tech in Mechanical Engineering*

Aug 2017 – Jul 2021

GPA: 2.0

PROJECTS

AI Developer (Project Work) — *Predictive Maintenance Dashboard Link*

Jan 2025 – Feb 2025

Designed and deployed a Streamlit-based dashboard to predict Remaining Useful Life (RUL) for industrial engines.

Trained and tuned Random Forest and XGBoost models on sensor data, achieving 92% prediction accuracy.

Computer Vision Developer (Academic Project) — *Fruit Detection Robot Link*

Jul 2024 – Sep 2024

Developed a vision-based robotic sorting system in Webots with OpenCV and Python, implementing contour analysis to boost fruit detection accuracy by 30%.

Simulated real-time robotic actions and fine-tuned motion parameters to optimize sorting speed and efficiency.

SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C#, SQL
Web & Backend Development: Spring Boot, Jakarta EE, .NET Core, ASP.NET Core, Node.js, REST APIs, JWT
Frontend Development: React.js, HTML5, CSS, Tailwind CSS, Streamlit
Databases: MySQL, SQL Server,
Cloud & Data Platforms: Azure Data Factory, Azure Databricks, Google Cloud (exploring)
DevOps & Tools: Docker, Git, GitHub, CI/CD pipelines, JUnit
AI & ML Toolkit: Machine Learning, Random Forest, XGBoost, OpenCV, FastAPI (exploring)

PUBLICATIONS

Productivity Improvement using Automation in Conveyor Roller Welding
Paper Id - IJRASET34898 published in Volume 9, Issue VI, June 2021 i Applied Science & Engineering Technology

LANGUAGES

English (C1), German (B1), Hindi (C1)

Full-Stack Developer (Project Work) — *Vehicle Configurator Website Link*

Aug 2023 – Sep 2023

Built a scalable B2B car leasing portal using Jakarta EE, .NET, Spring Boot, React, and Microservices with Docker deployment.

Enabled dynamic car configuration, invoice generation (PDF), and secure client communication via JWT and email integration.

EXPERIENCE

SRH Berlin University of Applied Sciences — *Engineering Intern*

March 2025 – April 2025

Assembled and calibrated a Voron 3D printer from open-source hardware; optimized print quality through firmware tuning and sensor integration.

Collaborated on mechanical design, Raspberry Pi setup, and Mainsail OS configuration for remote print monitoring and control.

ONLINE COURSES & CERTIFICATION

INTRODUCTION TO BUSINESS MANAGEMENT, KING'S COLLEGE LONDON

How Things Work: An Introduction to Physics, Authorized by University of Virginia

Mechanics of Materials I: Fundamentals of Stress & Strain and Axial L Authorized by Georgia Institute of Technology

Fusion 360 Simulation: Working with Imported Geometry Autodesk Design Academy

TOOLS

- PYCHARM
- VS CODE
- SpringTool
- VISUAL STUDIO
- FUSION 360
- INVENTOR

INTERESTS

- Traveling
- Book Reading
- Photography
- Video Editing