

RAKSHITH G

Machine Learning Engineer — Software Development Engineer

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Professional Summary

Machine Learning Engineer and Full-Stack Developer with 2+ years of experience in AI-driven solutions and web application development. Skilled in developing machine learning models, generative AI frameworks, and enhancing operational efficiency. Successfully led projects at Mercedes-Benz R&D India and Publicis Sapient. Holds Master's in Machine Learning Engineering from NIT Karnataka and a Bachelor's in Computer Science Engineering.

Area of Expertise

Technical Skills: Machine Learning Engineering Artificial Intelligence, Generative Adversarial Networks (GANs), Deep Learning, Reinforcement Learning, PyTorch, TensorFlow, LLMs and LVMs, Computer Vision, Transformers, Web Development (Full-stack), React.js, JavaScript/TypeScript, Git, Agile Methodology, Test Automation, Selenium WebDriver, Behavior-Driven Development (BDD), Ruby

Professional Skills: Project Management, Leadership, Team Collaboration, Agile Development, Problem Solving, Critical Thinking, Adaptability, Client Interaction, Mentorship, Presentation Skills, Cross-functional Collaboration, Research and Development, Data Analysis, Interpersonal Skills,

Experience

Mercedes-Benz Research and Development India

7 Months

Machine Learning Engineer Intern

Jan 2024 – Present

- Development of generative AI framework with proprietary tools to create realistic video samples for research projects.
- Implementation of reinforcement learning algorithm for 3D bin packing, enhancing warehouse space utilization.
- Contributing to backend development for optimizing warehouse space allocation and forklift operations.

Skills: Generative AI Development · Generative Adversarial Networks · PyTorch · Tensorflow · Algorithm Development

Publicis Sapient

1.8 Years

Software Development Engineer L1

Jan 2021 – Nov 2021

- Enhanced Web UI for Automotive Company Improved page speed by 30%, and increased customer retention by 10%.
- Implemented Real-Time Features Introduced online booking for test drives, home delivery, owner services.
- Agile Development and Cross-Skills Achievement: Leveraged Agile methodology and advanced analytics for improved user experience; recognized for participation in the Cross Skills Program and embodying core company values.

Skills: React.js · Cascading Style Sheets (CSS) · JavaScript · HTML5

Quality Engineer L1

Jun 2020 - Jan 2021

- Conducted UI web automation testing for a in the Automotive Industry, utilizing the Watir (Ruby) library in Blunder and associating with CICD (Continuous Integration and Continuous Deployment) using Jenkins
- Performed Cross-browser and Responsive devices UI/UX testing using BrowserStack.
- Worked on CMS tool: Adobe Experience Manager (AEM) for authoring and testing purposes.

Skills: Watir · Adobe Experience Manager · UI test automation · BrowserStack · Cross-browser Compatibility · Ruby

Quality Engineering Intern

Jan 2020 – Jul 2020

- Developed Selenium WebDriver tests with BDD Cucumber framework.
- Applied various testing methods, including API, security, and performance testing using Karate.
- Collaborated with team using Git for version control and task management.

Skills: Selenium Webdriver · Behavior-Driven Development (BDD) · Karate Framework · BDD Cucumber

Projects

Real-Time Indian Sign Language Classification using LSTM | *Machine Learning*

Mar 2023

- Curated 3000 ISL gesture videos using MediaPipe Holistic for "Help me," "Call police," and "Thank you."
- Engineered a preprocessing pipeline, normalizing keypoints and segmenting features.
- Designed a three-layer LSTM model for precise ISL gesture recognition, achieving 92.5% accuracy.

Automated Real-Time Accident Detection System | *Computer Vision*

In Progress

- Created a realtime accident detection system with computer vision, YoloV7 Transfer Learning, RAFT for Optical Flow.
- Envisioned to enhance road safety by reducing emergency response times and improving resource allocation.
- Implementing innovative technologies to identify vehicles, pedestrians, and road elements in live video and trigger alerts.

Satellite Image to Maps Translation using pix2pix GAN <i>Computer Vision</i>	Nov 2022
<ul style="list-style-type: none"> Implemented pix2pix GAN with U-Net generator for satellite image to maps translation. Utilized conditional adversarial network follows Image-to-Image Translation with Conditional Adversarial Networks. Led innovative image translation with learned mappings, marking a paradigm shift in automation. 	
Deep Learning for Age Estimation using Facial Images <i>ACIT Conference 2020 — IACIT-20-600</i>	Jan 2020
<ul style="list-style-type: none"> Employed Deep Convolutional Neural Networks to enhance age and gender prediction, surpasses traditional algorithms. Built a TensorFlow Lite model for age prediction, integrated into an Android app to regulate child internet access. Published a scientific paper at ACIT 2020 (Paper ID: IACIT-20-600), showcasing project research and contributions. 	
Responsive Movie Information Website <i>JavaScript, CSS, HTML</i> - View Website GitHub Code	Dec 2020
<ul style="list-style-type: none"> Designed responsive Movie Information website with Popular and Upcoming movie sections. Used Vanilla JavaScript for dynamic UI and smooth animations, improving user experience. Integrated front-end with back-end API links for seamless movie detail display. 	
E-commerce Website Development <i>ReactJs JavaScript, CSS, HTML</i> - View Website GitHub Code	Sep 2021
<ul style="list-style-type: none"> Developed a End-to-End E-commerce platform using ReactJS Libraries, featuring modern design and animations. Enabled on-the-go product management via Sanity and achieved complete Stripe integration for real payments. advanced cart, checkout functionalities, and enriched user experience through interactive design. 	

Education

National Institute of Technology, Karnataka <i>Masters in Machine Learning Engineering</i>	Aug. 2022 – Present <i>GPA : 7.6/10.0</i>
REVA University <i>Bachelors in Computer Science and Engineering</i>	Aug. 2016 – Aug 2020 <i>GPA : 8.9/10.0</i>

Leadership/Extracurricular

National Institute of Technology Karnataka <i>Placement Coordinator</i>	Spring 2023 – Present
<ul style="list-style-type: none"> Leading career placements, forging strong industry alliances as NITK's Placement Coordinator. Strengthened networking prospects by engaging alumni, fostering mentorship to promote impactful talent growth. Provided personalized guidance, organized events, and managed databases to boost student support and industry colab. 	
<i>Internship Coordinator</i>	<i>Aug 2022 - May 2023</i>
<ul style="list-style-type: none"> Internship Program Lead: Designed and managed transformative industry internships, fostering student growth. Guidance & Empowerment: Mentored and supported students for successful internships and career development. Administrative Excellence: Orchestrated orientations, evaluations, and database management for seamless internship. 	
<i>Class Representative — B.Tech — REVA University</i>	<i>Aug 2016 - Aug 2020</i>
<ul style="list-style-type: none"> Effectively coordinated activities, Championing student interests for an interactive learning journey. Volunteered as an Event Organizer for Reva Research Conclave (RRC-2018). Led as a Team Captain for the football team during my B.Tech. 	
Skills: Communication · Management · People skill · Interpersonal Skills · Leadership	

Achievements/Awards

- Secured All India Rank of **2031** in **GATE 2022** among 120 thousands candidates
- Winners** of 24-hour **Project Challenge 2019** organized by Xcelerator at REVA University Bangalore Division in 2019
- Runner-Up position in the **Smart India Hackathon Phase-2 Regional Level** Program in 2018.
- Winners** in a football tournament, representing the college at the Cluster Level Sports Meet in 2019.
- Recognized with an **Innovation and Talent Award** from Publicis Sapient for proposing the best solution idea for the Owner Service problem on behalf of the client in 2021.

Other Interests

- Fitness
- Football
- Dance
- Non-Fiction Books
- Trekking