

Ramesh P Koujalagi

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OBJECTIVE

AI/ML Enthusiast with a robust foundation in machine learning, deep learning, computer vision, and data analysis. Proficient in Python, TensorFlow, and NLP, with hands-on experience in developing innovative AI solutions for real-world challenges. Seeking an entry-level role to leverage technical expertise and problem-solving skills, contributing to a dynamic team while advancing in cutting-edge AI technologies.

EDUCATION

- Bachelor of Engineering in Computer Science and Design
Tontadarya College of Engineering, Gadag: May 2025 | CGPA: 7.0/10
 - Pre-University Course (PUC): Poorna PU Science College, Dharwad
Completed: 2021 | Score: 73%
 - Secondary School Leaving Certificate (SSLC): Shri Kumareshwar English Medium School, Savadatti Completed in 2019 | Score: 73%
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TECHNICAL SKILLS

- Programming Languages: Python, Java, C.
 - Web Development: HTML, CSS.
 - Cybersecurity: Kali Linux, Network Security.
 - AI/ML Frameworks: TensorFlow, Scikit-learn, OpenCV.
 - Databases: SQL, Firebase.
 - Tools: Git, Jupyter Notebook, VS Code.
 - Operating Systems: Linux, Windows.
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SOFT SKILLS

- Effective Communication.
 - Collaborative Teamwork.
 - Decision Making.
 - Problem Solving.
 - Time Management.
 - Multitasking.
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PROJECTS

Real-Time Rogue Access Point Detection (Cybersecurity, Machine Learning)

- Developed an AI-driven system to detect unauthorized Wi-Fi access points in real-time using machine learning algorithms.
- Implemented feature extraction from network traffic data and trained a Random Forest model to classify rogue access points with 92% accuracy.
- Utilized Python, Scikit-learn, and Kali Linux for packet analysis and model deployment, enhancing network security.
- Impact: Strengthened organizational cybersecurity by enabling proactive detection of potential threats.

Real-Time Attendance System (Machine Learning, Firebase)

- Designed a facial recognition-based attendance system integrated with Firebase for secure, real-time data storage and retrieval.
- Employed OpenCV and deep learning models (CNN) to achieve 95% recognition accuracy under varying lighting conditions.
- Built a user-friendly interface using Python and Tkinter, streamlining attendance tracking for educational institutions.
- Impact: Reduced manual effort by 80% and improved attendance management efficiency.

Real-Time Iris Gaze Tracking (Computer Vision)

- Created a computer vision application to track iris movement for human-computer interaction and accessibility solutions.
- Leveraged OpenCV and Dlib for real-time eye detection and gaze estimation, achieving a tracking accuracy of 90%.
- Optimized performance using Python and multithreading to ensure low latency on standard hardware.
- Impact: Enabled innovative applications in assistive technology and user interface design.

Online Event Management Website (Database Management, Web Development)

- Developed a full-stack web application for event planning, registration, and management using HTML, CSS, and SQL.
- Designed a relational database schema to handle user data, event schedules, and bookings with efficient query performance.
- Implemented secure user authentication and dynamic content rendering, supporting 100+ concurrent users.
- Impact: Simplified event organization, reducing planning time by 60% for organizers.

CERTIFICATIONS

- AI Machine Learning Engineer (NSQF Level 5), IT-ITeS Sector Skill Council, NASSCOM March 2025 | Score: 266.5/375 (Grade: B) | 480 Hours
- Certified AI - Machine Learning Engineer, PMKVY 4.0, NASSCOM March 2025
- Unified Modelling Language, Infosys Springboard
- Database and SQL, Infosys Springboard
- Object-Oriented Analysis, Design, and Programming with UML
- Wadhvani Foundation Certificate

INTERNSHIPS

AI-Machine Learning Engineer (On-the-Job Training) Rooman Technology, Karnataka

- June 2024 - August 2024
- Developed and deployed ML models for predictive analytics, improving data-driven decision-making.
- Collaborated with a team to integrate models into production environments using Python and TensorFlow.

Machine Learning Intern Take It Smart, Remote

- March 2024 - May 2024
- Built a sentiment analysis model using NLP techniques, achieving 85% accuracy on customer feedback data.
- Optimized model performance through hyperparameter tuning and data preprocessing.

Skill Development Intern Tontadarya College of Engineering, Karnataka

- January 2024 - February 2024
 - Conducted workshops on Python and AI basics, training 50+ students in practical ML applications.
 - Assisted in developing a campus chatbot prototype using NLP and Python.
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ACHIEVEMENTS

- Secured All India Rank 5354 in TCS Code Vita Season 12, a global coding competition.
- Publishing a technical paper on "Rogue Access Point Detection Using Machine Learning" in an IEEE conference.