

Rahul Bilki

Bengaluru, Karnataka

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Profile Summary

- Strong foundation in deep learning, computer vision, and natural language processing for solving complex real-world problems.
- Experienced in developing AI-driven solutions that enhance automation, efficiency, and user experience.
- Skilled in training and deploying machine learning models using TensorFlow, PyTorch, and Keras.

Experience

Technology Intern

LogicHive Solutions Pvt. Ltd.

Feb 2025 – May 2025

Puttur, Karnataka, India

- Built automation tools using Python, Selenium, and BeautifulSoup to streamline repetitive web tasks.
- Developed user-facing web apps with Streamlit for summarizing and presenting data efficiently.
- Leveraged LLAMA 3 via OLLAMA to integrate LLMs for real-time content summarization.
- Automated interaction with dynamic web elements using Selenium ActionChains and XPath.
- Contributed to in-house projects like “LinkedIn Automation Bot” and “Scroll and Summarize Tool.”

Core Member

Google Developer Student Clubs · Internship

Jul 2023 – Jul 2024

Shimoga, Karnataka, India

- Organized and managed multiple technical workshops and hackathons, promoting hands-on learning.
- Coordinated and facilitated guest lectures by industry professionals to enhance student exposure.
- Led and mentored fellow students in various tech-related projects and initiatives.
- Helped in planning and executing events to ensure smooth operations and maximum participation.

Projects

AI-Enhanced Smart Basket *Python, NFC, RFID Reader, Collaborative Filtering — Real-time Recommendations*

February 2025

- Developed a smart basket utilizing RFID technology to automatically detect items, removing the need for manual scanning.

- Implemented collaborative filtering to analyze customer data, providing personalized product recommendations and enhancing shopping efficiency.
- Optimized the checkout process, reducing waiting time by 30% and improving the user experience.

Driver Fatigue Detection System *Python, OpenCV, CNN, Haarcascade, Google Maps — Real-time Fatigue Detection*

January 2024 – August 2024

- Designed and implemented a driver fatigue detection system using CNN and OpenCV, achieving 95% accuracy in drowsiness detection.
- Integrated real-time alerts and voice-based navigation to suggest nearby rest areas, significantly improving driver safety.

Plastic Pyrolysis Plant: Converting Plastic to Fuel *December 2022 - April 2023*

- Contributed to a project focused on converting waste plastic into low-sulfur fuel using thermo-catalytic depolymerization technology.
- Collaborated with a team to optimize fuel extraction using zeolite catalysts, addressing the global issue of plastic waste and energy recovery.

Technical Skills

Programming Languages: Python, C

Technologies/Frameworks: TensorFlow, OpenCV, Streamlit, Flask, Raspberry Pi

Data Science & AI: Machine Learning, Deep Learning, Computer Vision, Recommender Systems

Tools & Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, OpenAI API

Languages: Hindi, English, Kannada, Telugu

Education

PES Institute of Technology and Management

2021 – 2025

Bachelor of Engineering in Artificial Intelligence and Machine Learning

Shivamogga, Karnataka, India

Extracurricular / Certifications

- Participated in the 15th Edition of MANTHAN 2023 Innovation & Business Plan Presentation organized by FKCCI, Bengaluru, ranking among the Top 34 Teams.
- Completed a 50-hour industry-oriented course on Artificial Intelligence & Machine Learning.
- Participated in “Wave 2.0” Hackathon organized by Basaveshwar College, Bagalkote.
- Secured 3rd place in Hackathon 2.0 organized by IEEE Subsection, BIET, Davangere.
- Attended the Entrepreneurship Development Program by NAAVIC at “ICAIR-NIVEDI,” GKVK, Bangalore.