

Komal Hiremath

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EDUCATION

S. G. Balekundri Institute of Technology, Belagavi, KA

Bachelor of Engineering in Computer Science

Dec 2021 – May 2025

CGPA: 8.24

TECHNICAL SKILLS

Languages: C++, Python, JavaScript

Web Technologies: HTML, CSS, ReactJS, REST APIs, Bootstrap

AI/ML : IBM Watson Studio, AutoAI, Jupyter Notebook, Scikit-learn, Prompt Engineering

Databases: MySQL

Tools & Platforms: Git, Linux, Eclipse, VS Code, Webots, Gazebo, ROS2

PROFESSIONAL EXPERIENCE

AI/ML Intern

Jun 2025 – Jul 2025

Edunet Foundation - IBM SkillsBuild (Remote)

- Engineered and deployed machine learning models using **IBM Watson Studio**, AutoAI, and Jupyter Notebooks; evaluated performance using key metrics including the **confusion matrix**.
- Applied **NLP and computer vision techniques**, including CNNs and GANs, to simulate real-world applications such as chatbots and image recognition.
- Implemented **prompt engineering and tuning** strategies to adapt large language models with minimal retraining for domain-specific tasks.
- Completed **15 hours of IBM-certified training** across AI/ML, deep learning, NLP, and ethics, demonstrating comprehensive end-to-end understanding of modern AI systems.

Autonomous Navigation Intern

Nov 2024 – May 2025

Humanoid.AI Lab, IIIT Dharwad

Dharwad, KA

- Reduced mapping latency by **18%** using **ROS2-based SLAM techniques** in Gazebo simulations on **Linux**.
- Built multiple **virtual test environments** and custom **ROS2 nodes** with **launch files**, utilized in **Colcon builds** to ensure reliable and efficient software compilation.
- Applied various DSA algorithms, integrating **object detection** into **dynamic maps**, which improved navigation accuracy and path planning by **30%** during testing.
- Created version-controlled SDLC documentation for requirements, design, testing, and maintenance phases, ensuring long-term software sustainability and collaboration.

Full Stack Developer Intern

Dec 2022 – Feb 2023

Acmegrade

Bangalore, KA

- Enhanced a robust e-commerce application using HTML, CSS, and JavaScript, improving load times by **40%** through responsive design techniques and optimized libraries.
- Automated **user engagement pipelines** using low-code tools; increased active user retention by **25%**.
- Collaborated in Agile sprints with daily stand-ups, iterative testing, and peer code reviews to streamline the development cycle using **GitHub Projects**.

TECHNICAL PROJECTS

Placement Launchpad with Data Analytics

- Created **3 role-specific dashboards** for TPOs, companies, and students, enabling real-time tracking of 150+ student registrations, tests, and placements.
- Integrated **student profiles, class ranks, feedback, and skill gap analysis** using Google Charts, improving performance tracking for **2+ departments**.
- Enabled **branch-wise alerts**, automated emails, and various filters for company-specific eligibility, streamlining the placement process for **5+ companies**.

Multi-Tenant SaaS Platform

- Serviced a scalable **SaaS platform** serving **4 domains**: e-commerce, dining, pharmacy, and grocery.
- Designed responsive UI with **10+ modular** components and real-time user interactions.
- Ranked in **top 5 out of 45 teams** for innovation and full-stack implementation.

ACHIEVEMENTS

- **Top 10** out of **475** teams in Hack2Future 32-Hour Hackathon – IIIT Dharwad.
- **Top 70** out of **56,254** participants in i.mobilathon 4.0 – Volkswagen Group (Unstop).

CERTIFICATIONS

- Completed 12-week **McKinsey Forward Program** by **McKinsey & Company**, building skills in **structured problem-solving, effective communication, resilience**, and **digital fluency**
- Software Engineering Job Simulation – **Goldman Sachs**
- Wave 2.0 National Level Hackathon – **BEC Bagalkot**.
- Flipkart GriD 6.0 Software Development Track – **Flipkart**.
- Google DEVFEST 2022 – **Google Developers Group**.