

Vishnu Kashyap D

3rd Year B.E. (AI & ML) | BMSIT&M

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PROFESSIONAL SUMMARY

Enthusiastic AI & ML Engineering student with a strong foundation in Computer Vision, Deep Learning, and Open Source development. Experienced in building social-impact AI solutions, organizing large-scale technical events, and leading student communities. Proven track record of innovation with **4+ hackathon victories**, **CTF wins**, and active contributions to open-source ecosystems.

KEY ACHIEVEMENTS

- **Hackathon Winner:** Secured victory in **4+ Hackathons**, demonstrating rapid prototyping and problem-solving skills.
- **CTF Champion:** Winner of **Capture The Flag (CTF)** cybersecurity competitions.
- **Open Source:** Active contributor to **17+** public repositories and AI/ML libraries.

EXPERIENCE

Vice Chair | IEEE CIS BMSIT&M

2023 – Present

- Spearheaded the organization of **8+ major technical events**, hackathons, and industry speaker sessions.
- Conducted ML workshops for **100+ students**, fostering technical growth in the community.
- Mentored juniors on **Python, OpenCV, and Git/GitHub** best practices.

EDUCATION

B.E. in Artificial Intelligence & Machine Learning

2023 – 2027

BMS Institute of Technology & Management, Bangalore

- **Relevant Coursework:** Machine Learning, Deep Learning, Data Structures & Algorithms, DBMS, Computer Networks.

TECHNICAL SKILLS

- **Languages:** Python, C, C++, SQL, MATLAB, L^AT_EX, HTML, CSS.
- **Frameworks:** TensorFlow, PyTorch, scikit-learn, OpenCV, YOLO, MediaPipe, React, Tailwind CSS, Pandas.
- **Tools:** Docker, Azure, Google Cloud, Git, GitHub, Linux, Windows, VS Code, Notion, DaVinci Resolve, Canva.
- **Domains:** Computer Vision, NLP, Deep Learning, Web Development, Video Editing.

SOFT SKILLS

- Communication, Team Collaboration, Leadership, Problem Solving, Time Management.

SELECTED PROJECTS

Safe Vision (Formerly Assault Detection)

Real-time Public Safety & Blockchain System

- Achieved **92% detection accuracy** using **YOLOv8** to analyze surveillance feeds for physical assault.
- Improved alert transmission speed by **40%** using a **Blockchain-backed hashing** system for encrypted evidence transfer.

Music Genre Classification

Audio Signal Processing & PCNN

- Trained a spectral analysis model (spectrograms) achieving **88.4% test accuracy** on validation data.

Krishi Sakhi

AI-Powered Personal Farming Assistant

- Developed a farming assistant supporting **Malayalam voice + text** with **>95% ASR accuracy** in testing.
- Integrated a "Knowledge Engine" for real-time context-aware alerts on weather, pests, and government schemes.

Crop Disease Detection

Deep Learning for Agriculture

- Reached **85–90% classification accuracy** on the leaf dataset using a **CNN-based model**.
- Optimized the model pipeline to assist farmers in timely intervention, maximizing crop yield.

Cricket Turf/Pitch Booking Website

Full-Stack Web Development & DBMS

- Developed a full-stack booking system with **DBMS** for real-time turf slot reservations and user management.

Nutritional Suggestion Website

Healthcare Web Development

- Created a responsive web app generating personalized diet plans based on BMI and user metrics.

CERTIFICATIONS

- **Supervised Machine Learning** (Coursera) — **Andrew Ng**: Mastered Regression, Classification, and ML fundamentals.
- **Oracle Cloud Foundations**: Certified in cloud computing fundamentals and Oracle Cloud Infrastructure (OCI).
- **Outskill AI Tools**: Trained in **Prompt Engineering** and **AI automation workflows**.
- **Infosys Springboard**: Certified in **Python, C/C++**, **Software Engineering**, **Project Management**, and **Git/GitHub**.
- **Climate Change: From Learning to Action** (UN CC:Learn): Specialized course on climate science and sustainability.

LANGUAGES & HOBBIES

- **Languages**: Kannada (Native), English (Professional), Hindi (Professional).
- **Hobbies**: Cricket, Gaming, Reading.