

VISHNU KASHYAP D

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GitHub | LinkedIn | Portfolio

Professional Summary

Artificial Intelligence & Machine Learning (AI & ML) undergraduate specializing in Machine Learning, Natural Language Processing (NLP), and Deep Learning applications, driven by a passion for building impactful, real-world solutions. Engineered real-time Artificial Intelligence systems using Python, PyTorch, TensorFlow, and OpenCV. Orchestrated end-to-end workflows encompassing model training, preprocessing pipelines, feature extraction, and deployment to solve complex problems.

Education

Bachelor of Engineering (Undergraduate) – Artificial Intelligence & Machine Learning 2023 – 2027

BMS Institute of Technology & Management, Bengaluru

Relevant Coursework: Machine Learning, Deep Learning, Data Structures, Database Management Systems (DBMS), Computer Networks, Artificial Intelligence, Operating Systems, Theory of Computation, Natural Language Processing.

Key Achievements

- Secured victory in 4+ hackathons in Artificial Intelligence and cybersecurity, including Bangalore Round PrepBot, through solution-based implementations
- Attained top-2 ranking in Capture The Flag (CTF) competitions by solving advanced cryptographic and reverse-engineering challenges
- Architected core components for 3+ open-source automation projects, optimizing deployment workflows
- Spearheaded 'Winter of Projects' and 3+ collaborative technical initiatives for 50+ participants under IEEE Computational Intelligence Society (CIS) chapter

CODING PROFILES

LeetCode — 100+ problems solved — Data Structures & Algorithms

Experience

Vice Chair – IEEE Computational Intelligence Society (CIS) BMSIT&M 2023 – 2025

- Orchestrated 8+ technical events including hackathons and hands-on workshops
- Directed Machine Learning (ML) and OpenCV training sessions for 100+ students
- Mentored 15+ 1st and 2nd-year students in Python workflows, Git version control practices, and agile project structuring methodologies

Technical Skills

Languages: Python, C, C++, SQL

Core: Data Structures & Algorithms, Object-Oriented Programming (OOP)

Frameworks: TensorFlow, PyTorch, scikit-learn, OpenCV, YOLOv8, MediaPipe, Pandas

Tools: Git, GitHub, Docker, Linux, Azure, Google Cloud

Domains: Machine Learning, Natural Language Processing, Deep Learning, Frontend Development

Selected Projects

Safe Vision – Real-Time Assault Detection [\[github-link\]](#)

- Engineered a real-time surveillance detection system processing 30+ frames-per-second using YOLOv8 and OpenCV
- Maximized detection accuracy to 92% through transfer learning and preprocessing optimization
- Slashed alert latency by 40% using cryptographic hashing for secure, tamper-proof evidence tracking and rapid retrieval

Krishi Sakhi – Artificial Intelligence Farming Assistant [\[github-link\]](#)

- Developed a multilingual farming assistant supporting 4+ languages for voice and text interaction
- Integrated Natural Language Processing (NLP) pipelines and 3+ external REST APIs for automated contextual response generation
- Optimized Automatic Speech Recognition (ASR) performance to 95%+ accuracy through tuning and evaluation

Music Genre Classification [\[github-link\]](#)

- Constructed a spectrogram-based Convolutional Neural Network (CNN) trained on 1000+ audio files for audio genre classification
- Achieved 88.4% validation accuracy using advanced feature extraction techniques, optimizing the model for scalable audio analysis

Cricket Pitch Booking System (MySQL + Python) [\[github-link\]](#)

- Designed Third Normal Form (3NF) relational database schema managing 50+ concurrent users
- Executed booking logic for slot management, eliminating booking conflicts

Certifications

- NPTEL Certification in Introduction to Large Language Models (LLMs) (IIT Madras) – Elite (2026)
- NPTEL Certification in Leadership and Team Effectiveness (IIT Roorkee) – Elite (2026)
- Supervised Machine Learning – Andrew Ng (Coursera)
- Oracle Cloud Foundations
- Infosys Springboard – Python, Software Engineering, Project Management