

Akshay Bhat

Bachelor of Technology
Artificial Intelligence and Machine Learning
B.M.S College Of Engineering, Bengaluru

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🐙 GitHub Profile
🌐 LinkedIn Profile
🌐 Portfolio Website

TECHNICAL SKILLS

-**Languages:** C++ | Python | C | JavaScript | SQL | HTML | CSS
-**Frameworks:** React.js | Next.js | Tailwind | Flask | TensorFlow | Scikit-learn
-**Tools:** Git | Google Colab | GCP | Jupyter Notebook | MongoDB | MySQL | SQLite | Vercel | Render
-**Course Work:** Data Structures | Databases | OOP | Computer Architecture | Machine Learning

PERSONAL PROJECTS

- **CareBridgeAI** | Python, BART-base, React, Next.js, Flask Sept 2025
AI-powered platform for immediate healthcare support and consultation simulation.
 - Fine-tuned **BART-base** on medical dialogues using **Mixed Precision (FP16)** and **Gradient Accumulation**, optimizing memory throughput to achieve a **2.08 Validation Loss** over 3 epochs.
 - Developed a comprehensive support ecosystem featuring **automated resource geolocation**, community assistance modules, and **symptom-based triage**.
- **Alphawave** | Python, BERT, LSTM, Linear Regression, React, Next.js Nov 2025
Comprehensive Fintech & EdTech platform for stock analysis and trading simulation.
 - Engineered a real-time analysis pipeline using **BERT** (sentiment) and **LSTM** (forecasting), ensembled via **Linear Regression** to generate actionable risk scores.
 - Built a gamified ecosystem featuring virtual money trading, 1v1 competitions, and **trading psychology** mini-games to test emotional discipline.
- **FabrAIC** | Python, TensorFlow, ResNet50, React, Node.js, Pandas Aug 2025
Intelligent Fashion-Tech platform for personalized wardrobe management and style automation.
 - Architected a **hybrid recommendation engine** on a subset of the **DeepFashion dataset** (14k+ images), fusing **ResNet50** visual embeddings with **25+ structured attributes** to model complex outfit compatibility.
 - Built a smart inventory system that leverages **deep feature vectors** for **automated outfit completion**, enabling users to generate cohesive looks via a custom **binary classification pipeline**.
- **MoodQuest** | EfficientNet-B0, PyTorch, OpenCV, Flask, Next.js, MongoDB Nov 2025
Real-time facial expression recognition and mental health monitoring platform.
 - Secured **6th Place (National)** at a hackathon by delivering an MVP in **48 hours**, utilizing a fine-tuned **EfficientNet-B0** on the **FER-2013 dataset** with transfer learning and data augmentation to maximize accuracy.
 - Developed a wellness ecosystem featuring real-time stress analysis and standard clinical assessments (**PHQ-9, GAD-7, PSS**) visualizing longitudinal mood trends via interactive Next.js dashboards.
 - Engineered a scalable architecture using **Flask** and **MongoDB** to handle video stream inference and user data.
- **HackArena** | Python, Flask, MongoDB, OAuth, Jinja2, Render March 2025
Full-stack platform for seamless hackathon hosting and team management.
 - Developed a centralized management platform for team formation, registration, and submission tracking using **Jinja2** templating for dynamic frontend rendering.
 - Integrated **Google OAuth** for secure authentication and deployed the fully **containerized application** on Render for public access.

POSITIONS OF RESPONSIBILITY

- **Web Developer & UI Designer, AeroBMSCE Club**
Designed UI/UX wireframes and design-to-code workflows for the club's web interface. 2025-Present
- **Organizing Committee Volunteer, Utsav (Cultural Fest)**
Coordinated on-ground logistics and event operations. March 2025

ACHIEVEMENTS

- **Top 6 Finish** at AiVerse 2.0 Hackathon Oct 2025
Placed top 6 out of 100 teams in a 48hr Hackathon and engineered "MoodQuest," a real-time emotion detection system using PyTorch & OpenCV.
- **Top 15 Finish** at Phaseshift Tech Fest '25 Hackathon Sept 2025
Selected as a finalist from a pool of 125 teams in a 24hr Hackathon and built "CareBridgeAI," an all-in-one multi-lingual support ecosystem featuring a fine-tuned medical AI assistant for refugees.