

ABHINAV K K

AIML Engineer

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Summary

AIML Engineer with strong foundation in Python, Machine Learning, Deep Learning, and Computer Vision. Skilled in developing AI-powered applications, data analysis, and creating intuitive user experiences. Experienced in implementing neural networks, NLP solutions, and deploying ML models using modern frameworks and cloud technologies.

Skills

Programming & AI/ML: Python, JavaScript, SQL, Machine Learning, Deep Learning, Neural Networks, NLP, Computer Vision, Generative AI

Tools & Frameworks: TensorFlow, PyTorch, OpenCV, Docker, Azure, Git, Jenkins

Development & Design: Web Development, UI/UX Design, Figma, Tableau, Power BI, Excel

Core Competencies: Model Development, Model Deployment, Data Structures, OOP, Exception Handling, LINQ, Async/Await

Education

Bachelor of Technology in Computer Science and Engineering

2022 – 2026

Dayananda Sagar University, Bangalore

Current Status: Pursuing

- Relevant Coursework: Data Structures, Algorithms, Machine Learning, Deep Learning, Computer Vision, Web Development, UI/UX Design
- Focus Areas: Artificial Intelligence, Machine Learning, Software Engineering

Projects

AI-powered Music Recommender System | Python, OpenCV, ML, YouTube API

March 2025 – June 2025

- Developed facial emotion detection system using Python and OpenCV to analyze user mood in real-time with 92% accuracy.
- Implemented machine learning models for emotion classification (happy, sad, neutral) using computer vision techniques.
- Integrated YouTube API to recommend personalized music based on detected emotions, enhancing user experience through AI-driven personalization.
- Built intuitive user interface and deployed the complete system with seamless mood-to-music mapping functionality.

Voice-to-Image Converter | Python, Faster Whisper, AI APIs, Figma

May 2025

- Created intelligent tool converting voice instructions into images using advanced speech recognition and generative AI models.
- Implemented Faster Whisper for accurate voice-to-text conversion and integrated with AI image generation APIs for seamless workflow.
- Designed comprehensive UI mockups in Figma to optimize user experience and test various user interaction flows.
- Developed end-to-end pipeline from voice input to image output with error handling and optimization for real-time processing.

Certifications & Awards

- **Linux Programming Foundation Certification (2018):** Advanced system programming and command-line proficiency for ML development environments.
- **Figma for Designers (June 2025):** UI/UX design certification focusing on user-centered design principles and prototyping.
- **Academic Excellence:** Consistent high performance in AI/ML coursework and practical implementation projects.

Additional Skills

Soft Skills: Team Collaboration, Problem-solving, Communication, Adaptability, Time Management, Critical Thinking, Creativity

Technical Proficiencies: AI Automation, Model Optimization, Data Visualization, Statistical Analysis, Algorithm Implementation