

KUMAR ABHINAV

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iamabhinav.lovable.app

Professional Summary

Data Scientist and **AI Engineer** with a strong grasp of **machine learning**, **model development**, and **data-driven problem solving**. Passionate about designing intelligent systems that integrate seamlessly with real-world applications. Experienced in **Python**, **ML algorithms**, and **end-to-end AI pipelines**—from data preprocessing and training to evaluation and deployment. Committed to building robust, scalable, and user-centric AI solutions.

Experience and Projects

Exposys Data Labs — Data Scientist & AI Intern

- Developed a **Diabetes Prediction Model** using SVM and engineered features to improve accuracy over **75%**.
- Built and deployed a Django web application to deliver predictions via user-friendly UI.
- Cleaned and visualized real-world datasets to ensure model generalizability.
- **Technologies Used:** Python, Scikit-learn, Django, Pandas, NumPy

DocBot – AI Medical Assistant (Personal Project)

- Created an AI chatbot that interprets natural language symptoms and predicts diseases using ML ensemble (**SVM, RF, KNN, Logistic Regression**).
- Achieved up to **90% accuracy** on real-life test data by implementing retry logic and a contextual response system.
- Integrated backend with Django and deployed on web for seamless interaction.
- **Technologies Used:** Python, Django, Scikit-learn, HTML, CSS

Fitness Reward System (Personal Project)

- Built a motion/posture tracker using **OpenCV + MediaPipe** to gamify fitness routines.
- Developed an interactive UI using Kivy to monitor workout sessions and deliver real-time feedback.
- **Technologies Used:** Python, OpenCV, MediaPipe, Kivy

Technical Skills

Languages: Python, C, SQL

Libraries/Tools: Pandas, NumPy, Scikit-learn, Matplotlib, PyTorch, Django, OpenCV, MediaPipe

Domains: Machine Learning, Deep Learning, Computer Vision, Data Cleaning, Model Deployment

Achievements

- **Runner-up** in a 2023 Hackathon at Presidency University for building an AI-powered health assistant.
- Built multiple **end-to-end ML apps** achieving **70–98% accuracy**.

Education

Master of Computer Applications (MCA), VTU, Belagavi

2024 – 2025

Bachelor of Computer Applications (BCA), Presidency University, Bangalore

2020 – 2023