

KUMAR ABHINAV

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Professional Summary

Aspiring 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*

Nov 2024 – Dec 2024

- Built a **Diabetes Prediction Model** using **SVM** and advanced **feature engineering**, achieving over **75% accuracy**.
- Developed and deployed a **Django-based web app** for real-time risk prediction using health metrics.
- Cleaned and analyzed real-world **medical datasets** to improve generalization and interpretability.

Technologies Used: Python, Scikit-learn, Django, Pandas, NumPy

DocBot – AI Medical Assistant (Personal Project)

- Created an AI chatbot that predicts diseases from **natural language symptoms** using ensemble ML models (**SVM**, **Random Forest**, **KNN**, **Logistic Regression**) with up to **90% accuracy**.
- Included **contextual diagnosis**, **treatment suggestions**, and **robust retry logic**.
- Integrated with a clean and intuitive web interface via **Django**.

Technologies Used: Python, Django, Scikit-learn, HTML/CSS

Fitness Reward System (Personal Project)

- Built a **motion and posture tracker** using **OpenCV** and **MediaPipe** to gamify physical workouts.
- Developed a responsive and interactive desktop app using **Kivy**.

Technologies Used: Python, OpenCV, MediaPipe, Kivy

Technical Skills

Languages: Python, C, C#, Java, SQL

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

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

Achievements

- **Runner-up** at college-level Hackathon for building an AI-powered health assistant.
- Delivered multiple **end-to-end ML apps** with **70–98% accuracy**.

Education

Master of Computer Applications (MCA) , VTU, Belagavi	<i>2024 – 2025</i>
Bachelor of Computer Applications (BCA) , Presidency University, Bangalore	<i>2020 – 2023</i>
Schooling (Science Stream) , Kendriya Vidyalaya	<i>2007 – 2020</i>