

Deepak Saini

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I am seeking a ML/GenAI/AI developer role in an organization where I can contribute my ideas and be mentored toward a successful career. With a solid foundation in Python, Statistics, Machine Learning, Deep Learning, and Generative AI. My goal is to become a more responsible and knowledgeable personality in the field of Artificial Intelligence. I am eager to apply my skills to innovative projects.

Education

Year	Degree/Certificate	Institute	CGPA / %
2020-2024	B.Tech.	Government Engineering College, Bharatpur	9.0/10.0
2020	BSER(XII)	Jain Sr. Sec. School, Rajasthan	88.20%

Experience

ML Intern (AI)

Katchin Tech Pvt. Ltd., Delhi | Feb 2024 – Present

- Developing a **Chatbot** for an e-commerce company using **Google's Dialogflow** tool. The Chatbot is designed to offer **personalized product recommendations** based on user queries, as well as handle tasks such as order status **updates, tracking, and refunds**.
- Experiment with many different Large Language Models (LLMs), including **fine-tuning the LLM, Function Calling, Prompt Engineering**, etc.
- Contributing to various Deep Learning and Artificial Intelligence projects, gaining hands-on experience in cutting-edge technologies and methodologies.
- Conducting research and implementing innovative solutions to enhance the functionality and user experience of the Chatbot.
- Engaging in continuous learning and skill development to stay abreast of advancements in AI and ML technologies.

AI Intern (Summer Intern)

Learn and Build | May 2022-July 2022

- Participated in team meetings and collaborated with other interns to solve complex problems.
- Developed a **Breast Cancer Classifier** using Machine Learning algorithms that achieved accuracy up to **85-87%**.
- Contributed to the development of an ML dashboard where we **integrate 3 machine learning models**.

Projects

Fitness Chatbot (Using Google's Gemini api)

(Feb 2024)

- Created a chatbot where user can ask any question to chatbot related to fitness. User can also get personalized fitness plan from bot by uploading their full body image and passing some details body type, weight, age, fitness goal.
- Chatbot is built using pretrained **Google's LLM model Gemini-Pro and Gemini-Pro-Vision**. Chatbot uses both the model according to user prompt.
- Built responsive webapp using **HTML, CSS, Django** web framework.

Helmet Detection using YOLO

(July 2023)

- Created a web application for helmet detection, whether a motorbike rider wearing a helmet or not.
- Here we use pretrained **YOLOv8 model** for training our new model on **custom helmet dataset**.
- Built responsive and accessible web pages using **HTML** and **CSS**. And built application in Python's **Flask** web framework.

Mushroom Classification system

(March 2023)

- Created a web application for mushroom **classification** whether it's edible or not using Machine Learning algorithms.
- Built responsive and accessible web pages using **HTML** and **CSS**. And built application in Python's **Flask** web framework.
- Web application deployed on **Python anywhere** and **Heroku** deployment service.
- ML model achieved **87% accuracy** after training.

Dogs Breed Classifier

(December 2022)

- Created a web application for classifying dog's breed using **Transfer Learning** technique of deep learning and **RESNET50 model**.
- Built responsive and accessible web pages using **HTML** and **CSS**. And built application in Python's **Flask** web framework.
- Application can identify more than **80 dog breeds**.

Personal Voice Assistant (Desktop App)

(October 2022)

- Created a Voice Assistant using Python Language and Python **speech recognition** module.
- Built application **GUI** using python module.
- Assistant can do many as per user commands like searching on browser, sent email to anyone etc, play music, answer the user's question, etc.

Technical skills

Languages/ Libraries: Python | SQL | MongoDB | HTML | CSS | Numpy | Pandas | Seaborn | Scikit-Learn | Tkinter | Flask | Tensorflow | Django | Pytorch | Langchain | Pinecone | ChromaDB

Core Skills: Python | Machine Learning | Deep Learning | GenAI | LLM | Transformers | Vector Stores | Vector Databases | Embeddings

Software & Version Tools: Google Colab | Jupyter Notebook | Git | Github | Excel | PowerBI | WSL | Dialogflow | Linux

Relevant Courses

Course	Course company/ Institute	Verification Link
Python	GUVI	Verify Certificate no.: G3f7O6396L1055c9h1
AI for India	GUVI	Verify Certificate no.: 72X821w4061Z1ar3SL
Deep Learning Community	iNeuron	Verify Certificate no.: 4a85e6b1-a6fe-41ca-a4f0-b8171083afca

Achievements

First position in AI department so far.

Got **first position** in science department in Higher School.

Languages

Hindi | English

Personal Information

Father's name: Mr. Rajesh Saini

Date of Birth: 17 June 2002

Gender: Male

Marital Status: Unmarried

Nationality: Indian

Language known: English & Hindi

Hobbies: Gardening, Reading books

Declaration: I solemnly declare that the information stated above is true and correct to the best of my belief.

Date:

Place:

Deepak Saini