

Harsh Pant

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Education

Gautam Buddha University, Bachelor of Technology in Artificial Intelligence

Sept. 2021 – July 2025

- **Location:** Greater Noida, Uttar Pradesh
- **Coursework:** Data Structure and Algorithms, Database Management Systems, Operating Systems, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Large Language Models(LLMs)

Experience

Jr. Software Engineer, PharynxAI

July 2024 – Present

- **Optimized Generative AI** workflows with **ComfyUI** and **Stable Diffusion**, boosting efficiency by **20%** in image generation, inpainting, and video creation, while enhancing scalability by **20%** through **parallel processing and chunking**.
- **Reduced experimentation cycles by 30%** by deploying optimized models on **Runpod** and **Hugging Face**, integrating scalable **Generative AI** solutions in collaboration with senior developers.

AI/ML Intern, Deepmindz Innovations

Jan 2024 – June 2024

- Conducted project-specific **research and development** on **state of the art Generative AI** technologies, designing custom pipelines for various tasks such as **voice cloning**, **lip-sync**, **stable diffusion**, **image inpainting** and **deepfake**.
- Fine-tuned advanced models, including **LLMs** and **Stable Diffusion**, achieving a **15% performance improvement** in testing scenarios.

Machine Learning Intern, ResoluteAI Software

Nov 2023 – Jan 2024

- Enhanced **real-time object detection** pipeline **efficiency by 10–15%** through data annotation using Roboflow on video frames, **training state-of-the-art YOLOv5** model.
- **Collaborated with a team of 4-5 engineers** to **rigorously test** and validate the quality of the **model pipeline**, ensuring robustness in production environments.

Projects

Interview Assist

Project Link

- Developed a **scalable SaaS** platform leveraging **LLMs** and **advanced NLP techniques** to **automate recruitment**, **reducing manual screening time by more than 60%** by implementing advanced AI techniques such as **few-shot prompting**, **Retrieval-Augmented Generation (RAG)**
- Tools Used : Python , TypeScript , React , Flask , MongoDB | Link : github.com/crockrocks/InterviewAssist

BUD

Project Link

- Developed an **AI Companion Platform** to support mental health through engaging, empathetic conversations with favorite characters. Utilized **few-shot prompting**, **RAG**, and **LLMs**, guided by a **review of 10–12 research papers**, focused on enhancing emotional intelligence and delivering personalized user experiences.
- Tools used: Python, TypeScript, React, Flask, MongoDB | Link : [/github.com/crockrocks/BUD](https://github.com/crockrocks/BUD)

Dog Breed Classifier - Dog Vision

Project Link

- Built an image classification model using **transfer learning (model : MobileNetV2)** and **TensorFlow**, achieving a **90%** accuracy rate to identify dog breeds from the Kaggle dataset.
- Tools used : TensorFlow , Kaggle | Link : github.com/crockrocks/Dog_Breed_Classifier

More Proejcts can be found on my GitHub and on my portfolio

GitHub Link

Github Link : github.com/crockrocks/ PortFolio Link : harsh-pant.vercel.app/

Technologies

Programming Languages: Python, JavaScript, C++

Technologies/Frameworks: PyTorch, TensorFlow, HuggingFace, Flask, ReactJS

AI & ML Tools/Libraries: Numpy, Pandas, Scikit-learn, OpenCV, Transformers, LangChain, spaCy

Additional Tools/Platforms: Linux (Ubuntu, Arch), Docker, MongoDB, AWS, Google Cloud Platform, Azure