

ASHUTOSH YADAV

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Education

Indian Institute of Information Technology Vadodara(IIITV)

M.Tech in Computer Science & Engineering with specialization in Artificial Intelligence(AI)

8.0 CGPA

Dr. A.P.J. Abdul Kalam Technical University,(AKTU),Uttar Pradesh

B.Tech in Electronics & communication Engineering

64%

Work Experience

ESniff Devices

June 2024 – Present

AI/ML Engineer(Research Associate)

Noida, U.P.

- **E-Nose Device:** Design and development of hardware including Sensor optimization and AI model development for gas sensing device for pattern recognition to classify food adulterated products.

NYXify Technologies

March 2024 – May 2024

Data Science intern

Remote

- Feature Extraction of Audio data(more than 100k files)using VGGish model.
- Web Scraping – Scraped around 1.5 million images for our dataset

Teachers Assistant(IIITV)

Aug 2023 – Dec 2023

Distributed and parallel computing

- Programming Languages/Frameworks: Worked with parallel programming frameworks OpenMP and MPI for concurrent task execution.
- Leveraged cloud platforms (AWS, Google cloud platform (gcp)) for distributed computing clusters in conjunction with CUDA enabled GPUs for large-scale data processing

Badatya Pvt Ltd

Nov 2022 – May 2023

Full stack developer

- MERN stack used: **React.js** for UI, **Node.js/Express.js** for backend, **MongoDB** for storage.

Projects

Word2Vec: Continuous representation of words in vector space

[Source Code](#)

- **Tools Used:** Python, Machine learning, PyTorch, plotly
- Implemented the research paper Efficient Estimation of Word Representations in Vector Space

SURF(speeded up robust features): Implemented the SURF technique

[Source Code](#)

- OpenCV (for image processing), Python, NumPy (for numerical computations), Matplotlib (for visualization).

Sentiment Analysis: Analysed over 150 website blogs

[Source Code](#)

- Tools used: Python, Beautiful soup, pandas,nltk
- Scraped the Introduction of the topic from website and Performed sentiment analysis from scratch and nltk and pandas functions

Facial Emotion Recognition

[Source Code](#)

- Tools used: Python, openCV,pandas,keras
- Dataset: FER2013, implemented Sequential CNN model for classification of 7 classes of dataset

Web Development Projects

[Source Code](#)

- Tools used: Python,RestAPI,MERN, JavaScript
- Amazon Price tracker , Games such as Tic-tac-toe,rock-paper-scissor using MERN Stack

Technical Skills

Languages: Python, C++, JavaScript

Backend: Django, Node.js, Express.js

Frontend: React, TailwindCSS, HTML, CSS, Bootstrap

Clouds & Databases: AWS, PostgreSQL, MongoDB

Web Technologies: Docker, Socket.IO

Developer Tools: Postman, VS Code, GitHub

AI/ML: Tensorflow,Pytorch,Sk-learn,SQL,LLM(Large language models),PEFT,RAG,LoRA,qLoRA