JAY PADHIYAR

+91 73834 09061 ◇ Gandhinagar, Gujarat
Mail:jaypadhiyar62689@gmail.com ◇ Linkedin:Jaysinh Padhiyar ◇ Github:Aremstrom

EDUCATION

Master of Technology, Pandit Deendayal Energy University, Gujarat — Expected 2024
Course: Data Science — *CGPA: 8.72*

Bachelor of Engineering, Gujarat Technological University, Gujarat — 2019 - 2022
Course: Computer Engineering — *CGPA: 8.47*

Diploma, Gujarat Technological University, Gujarat — 2016 - 2019
Course: Computer Engineering — *CGPA: 7.49*

10*th*, Shree Swaminarayan Gurukul Vidyalaya , Gujarat — 2016
Board: Gujarat Secondary and Higher Secondary Education Board, Gujarat — *Percentage: 59%*

SKILLS

Technical Skills

Programming Languages:	Python, JavaScript, Java, C++
Developer Tools:	Git, Github, Visual Studio Code, Anaconda
Frameworks	Django, React, Flask, Angular, Express.js
Cloud/Databases	Google Cloud, Azure, MySQL, MongoDB

Soft Skills And Interests

Soft Skills	Adaptability , Communication, Problem Solving, Collaboration
Coursework	Data Structures, Machine Learning, Deep Learning
Areas of Interest	Large Language Models, Machine Learning, Deep Learning

EXPERIENCE / INTERNSHIP

Zydus Lifesciences — Jun 2023 – Present
Data Science Intern — *Ahmedabad, Gujarat*

- Focused on studying Loss on Drying (LOD) and Compression Force during Zydus internship.
- Utilized data collection, analysis, and advanced machine learning models to predict LOD and Compression Force parameters accurately, ensuring product stability and maintaining tablet quality.
- Developed an AI chatbot for analysis.

BISAG-N — Jan 2022 – Jun 2022
Machine Learning Intern — *Gandhinagar, Gujarat*

- Actively contributed to a project at Bisag-N focused on detecting and assessing the legitimacy of phishing sites.
- Utilized machine learning algorithms and data analytics to enhance the accuracy of the system in identifying security threats.
- Deepened understanding of machine learning applications for proactive risk mitigation through practical experience.

PROJECTS

Study and Prediction of L.O.D(Loss On Drying) Compression Force In Pharma — Jun 2023 - Present

- Tools technologies used: PI System(OSISOFT), Visual studio Code, Python , Machine Learning

- I've concentrated on studying Loss on Drying (LOD) and Compression Force in pharmaceuticals. LOD ensures product stability, while Compression Force maintains tablet quality. By gathering data from PI WEB API hosted on Azure, I aim to predict these parameters accurately. Moreover, I've developed an AI chatbot for analysis, improving pharmaceutical product quality and reliability.

L.L.Ms with Custom Data: A L.o.R.A and Q.L.o.R.A Approach Nov 2023 - Present

- Tools technologies used: Python, Large Language Models , Visual studio Code
- L.o.R.A((Low-Rank Adaptation of Large Language Models) and Q.L.o.R.A(Quantized Low-Rank Adaptation) techniques improve large language models' adaptation to custom data, reducing memory usage and training time. They enable efficient fine-tuning while retaining existing knowledge, vital for practical applications in various domains.

Fine-Tuning L.L.Ms and Prompt Engineering: Enhancing the Performance Jun 2023 - Nov 2023

- Tools technologies used: Python, Visual studio Code
- Specialized in fine-tuning Large Language Models (LLMs) and prompt engineering techniques, significantly enhancing performance metrics. Demonstrated expertise in tailoring models for specific tasks, showcasing a deep understanding of natural language processing and machine learning methodologies.

Chat With CSV (Try it here) Aug 2023 – Nov 2023

- Tools Technologies Used: Python, PandasAI
- Developed an AI-powered chat system that interacts with CSV (Comma-Separated Values) files. Leveraging the capabilities of Pandas, the system facilitates seamless communication and data retrieval from CSV datasets. Expertise includes integrating natural language processing with Pandas functionalities, creating an intuitive and efficient way to query and analyze tabular data through conversation.

Traffic Congestion Ratio Estimation Jan 2023 - May 2023

- Tools technologies used: Google MAPS API, Deep Learning , Python
- Developed a traffic congestion ratio estimation system utilizing the Google Maps API for data collection. Predictions are made using deep learning techniques, enhancing transportation planning and management efficiency for urban areas.

Sign Language Detection Jan 2023 – Mar 2023

- Tools technologies used: OpenCV, Python
- Developed a sign language detection system with OpenCV, utilizing video input to identify hand gestures and convert them into text. Evaluation will assess its accuracy in recognizing diverse sign language gestures.

POSITIONS OF RESPONSIBILITY

- **Teaching Assistant**, Pandit Deendayal Energy University, Gujarat Aug 2022 - Jun 2023
- **Research Assistant**, Pandit Deendayal Energy University, Gujarat Oct 2022 - Jun 2023

ACHIEVEMENTS

- **Acceptance of a paper**:*"Optimizing the Parameters of Fluidized Bed Dryer"*at IEEE I2CT-2024 Mar 2024
- **Presented a poster** on*"Fine-Tuning LLMs and Prompt Engineering: Enhancing the Performance"* at the IGNITE Event of IEEE Mar 2024

CERTIFICATES

- **IEEE** *IGNITE:Participants* Mar 2024
- **IEEE** *IGNITE: Poster Presentation* Mar 2024
- **GeeksforGeeks** *Generative AI Python Workshop* Feb 2024

- **DeeplearningAI** *Machine Learning* Aug 2023
- **DeeplearningAI** *Unsupervised Learning, Recommenders, Reinforcement Learning* Aug 2023
- **DeeplearningAI** *A Advanced Learning Algorithms* May 2023
- **DeeplearningAI** *Supervised Machine Learning: Regression and Classification* Apr 2023
- **NVIDIA** *Fundamentals of Deep Learning* Feb 2023