ADITYA JETHANI

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EDUCATION

Pandit Deendayal Energy University — Gandhinagar, India
Bachelor of Technology in Computer Engineering, CGPA: 9.44 — *October 2021 - Expected July 2025*

EXPERIENCE

AI Engineering Intern — Delhi, India
CybraneX Technologies — *May 2024 - October 2024*
- Applied advanced deep learning techniques to enhance OCR accuracy by **90%+** for **1000+** unorganized documents, optimizing automation for cloud integration with under **5ms** document processing time.
- Improved Image Tamper Detection system by analyzing **1500+ images**, implemented multi-lingual support and AI-powered information extraction from handwritten content.

Machine Learning Intern — Delhi, India
Free-Thesis, formerly SysMat Solutions — *March 2024 - May 2024*
- Advanced a hierarchical graph convolutional network (HGCN) to **96%** classification accuracy for brain disease detection, integrating forward pass alpha model improvements.
- Implemented a custom EEGNet deep learning model with self-supervised neural networks to classify depression and analyze seizures into **3** classes with **80%** accuracy score.

Machine Learning Intern — Jaipur, Rajasthan
Redpositive Services PVT. LTD. — *May 2023 - August 2023*
- Enhanced machine translation models by **30%** using Bidirectional LSTM networks and ensemble methods, integrating version-controlled pipelines for seamless production deployment.
- Coordinated with the back-end team to resolve **7** critical production code issues and pipeline creation.

PROJECTS

Conference Assistant: *Python, NLTK, Speech Recognition, Scipy, ChromaDB, WordCloud (Deployed Link)*
- Developed a Conference Summarizer AI that enables **50+** attendees to ask contextual queries, which are answered by summarizing **100+** pages of presentation materials with **80%** accuracy, providing an interactive Q&A experience.

HerbiSense: *Transformers, Deep Learning, Langchain, React.js, Node.js, Express.js, CSS*
- Trained a plant identification AI system on over **15,000** images, achieving **86%** accuracy using Deep Learning. Includes a chatbot for user questions, trained on authentic text materials, providing responses in under **5 seconds**.

CleverQuery - CSV Bot: *Python, NumPy, Pandas, Matplotlib, Data Science, Langchain (Deployed Link)*
- Designed an AI enabled chat application to visualize insights from **5 years** of electoral bonds data for political parties in India. Created vector store database with **200+** tables for context query inferences.

ACHIEVEMENTS

- **Hackathons**: Competed in **10+** hackathons such as Smart India Hackathon by Govt. of India and code for good by J.P. Morgan Chase & Co., Hacktober Fest: **15+** Successful open source contributions.
- **Coding Profiles:** Leetcode (**Max. Rating 1767**) Tackled **170+** DSA problems, **Top 11.6%** globally. Codechef (**Max. Rating 1509**) Ranked **936** in Starters 113D (among 19000+ contestants).
- **Certifications:** Tic Tech Toe (**Top 10 teams**), NVIDIA DLI, Data Analysis, Machine Learning

SKILLS

- **Languages:** Python, C++, JavaScript, SQL
- **Technologies and Frameworks:** Tensorflow, PyTorch, Langchain, OpenAI Codex, Numpy, Pandas, Matplotlib, Flask, Django, Git, Docker, Data Structures, Algorithms, HTML5, CSS3, Linux
- **Cloud Technologies:** Google Cloud Platform, Microsoft Azure (AI and ML Services), MongoDB
- **Soft skills:** Problem analytics, Team Work, Management, Resiliency

LEADERSHIP

Chairperson, ACM - PDEU Student Chapter — *July 2023 - July 2024*
- Led a community of **50+** developers to enhance the technical culture among students. Worked with the team to organize different workshops, expert lectures and events.