

# ISHAN MODI

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Ahmedabad, Gujarat

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## SUMMARY

- About: Machine Learning Engineer with an expertise in end to end product development. Enthusiastic to understand and apply mathematics to deal with various research problems. Fascinated by the impact of transformer models in the real world. Believes that cloud automation will be a part of every machine learning application in future.
- Knowledge Areas: Deep Learning, Natural Language Processing, Computer Vision, Product Development, Automation, Cloud Infrastructure, End-to-End Testing, Defining Project Workflow and Optimization.

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## EDUCATION

**B.Tech Computer Engineering** – Pandit Deendayal Energy University, 2021  
GPA – 9.58 (Top 1% of class)

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## PROFESSIONAL EXPERIENCE

**Machine Learning Engineer**  
**GLIB** Ahmedabad, Gujarat  
**June 2021 – Current**

- Worked on “Autosift”, company’s primary document processor. Involved in the overall product development by leading the tech team to restructure and optimize the application. The product is now processing a staggering volume amounting to **10 times more** than what we began with.
- Improvements included reduction of **TAT by 40%** by using multiprocessing and threading, automating the usage report generation and transmission to the clients, thereby saving the account’s team **valuable time and manpower** and pro-actively developing bulk processing module for testing, leveraging **Google Cloud Tasks** to eliminate the dependency on always on instances.
- Was fortunate to work with company’s research team and leverage hugging face to improve the overall **accuracy by 15%**. Got to learn various tools and technologies that help automate ML lifecycle building the CI/CD pipelines for deployment.
- Tools and Technologies: Python, Flask Api, Docker, Poetry, Google Cloud Platform, Firestore, Django, Pytorch, Amazon Web Services, Celery, Rabbit MQ.

**Machine Learning Intern**  
**GLIB** Ahmedabad, Gujarat  
**September 2020 – May 2021**

- Scrapping open-source audio data and corresponding transcriptions. Building a **server-client architecture** for audio transcription model and aligning the transcription with audio for better inference.
- Developing API for recognizing key details from financial documents. Includes building pipelines for processing and deployment, E2E unit testing and **algorithm development**. Involved in redesigning the database along with frequent bug fixing for a better user experience.

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## PERSONAL PROJECTS

**Deep Learning Algorithms** [github](#)

**FeedForward Neural Network and its applications:** Gradient Descent with Backpropagation for a simple task of classification, Autoencoders for dimensionality reduction, Word2Vec-CBOW to obtain word embeddings of word given the context word. These variants were coded using basic python libraries like numpy and pandas.

## Image Reconstruction [github](#)

**Principle Component Analysis:** Transforming the Image matrix to a new dimension and using Reconstructing images from eigenvectors thereby reducing storage requirements for large data.

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## ADDITIONAL INFORMATION

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### Co-Founder and ML Researcher

Cloud Tech Vadodara, Gujarat

July 2020 - Current

- Carrying out seminars with students and members and guide them to help them launch or accelerate their career in Data Science. Discussing project ideas and research topics with industry experts.
- Managing and Orchestrating the digital transformation of cloud Tech in order to reach more people. Achieved a following of over **3k on LinkedIn and 1k on Twitter**. Created an open-source community where people from expert to novice can interact and share ideas. Conducted around **50 seminars** and mentored over **5k students** till date.

### Volunteer Experience

- **Training and Placement Cell:** Headed the training and placement cell of his university in the academic year 2020-21. Planning industrial tours for students to acquaint them with the latest tools and technology prevalent in the industry. Organizing career fairs in university and aiding the university with contacting and maintaining the databases of various companies for internships and placements.
- **All in Development:** Interning at this NGO, Ishan was fortunate to be able to work on a organizing a GREENATHON in Vadodara city to spread awareness about the increasing plastic waste in the country. Event was a enormous success with an huge media coverage.

### Achievements

- Awarded the prestigious merit cum scholarship by the university, for extraordinary academic performance. 50% of the tuition fee was waved off as a part of this scholarship.