

KEVIN SHAH

Indian Institute of Technology Gandhinagar (IITGN)
Dual Minors in Computer Science and Artificial Intelligence

Department of Chemical Engineering

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EDUCATION

Qualification	Institute	CPI/%	Year
B.Tech	Indian Institute of Technology Gandhinagar	8.54/10	2024
Class XII	Prakash College of Science, Mumbai	90.92%	2020
Class X	Kapol Vidyavidyalaya International School	96.5%	2018

INTERNSHIPS

PUMA Group, Bangalore | Data Science Intern [\[Experience Letter\]](#) May '23 - July '23

1. E-commerce Demand Forecasting

- Optimized demand forecasting process at **category** & **product type** levels across the 7 **marketplaces** (Eg: Flipkart, Amazon)
- Developed 2 deep learning based models (**LSTM with Bayesian Optimization & Neural Prophet**) for accurate forecasting
- Deployed models using **Azure ML Studio**, reducing the deviation (error) for **FTW** category from **70% to less than 15%**
- Improved the **Planning Team's** forecasts overall by **24%** across all **ECOM** categories (FTW, APP, ACC)

2. Retail Store Clustering

- Identified **11** store attributes & **6 KPIs** using **SQL** & data visualization (**t-SNE, UMAP**) to facilitate **Assortment Planning**
- Leveraged 2 clustering algorithms (**K-Means & GMM**) for analyzing performance patterns in retail store clusters

InfyU LABS, Gandhinagar | Machine Learning Intern [\[Experience Letter\]](#) May '22 - June '22

- Improved the Quality Assurance system for fruits through optimized prediction using **MLP & PLS regression** models
- Performed multi-class classification of 5 types of Granular Plastics using **Random Forest & Logistic Regression (OVR)**

PROJECTS

CloudPhysician: The Vital Extraction Challenge | Inter IIT Tech Meet 11.0 [\[Project\]](#) Jan '23 - Feb '23

- Led the development of a **3-stage** Smart ICU Solution, extracting vital information from patient monitor screens
- Yolov7** for object detection, **EasyOCR** for text recognition & **DBSCAN** clustering for graph-digitization

Financial News Research Tool | Working POC using [Streamlit](#) Application [\[Project\]](#) Dec '23

- Build a **LLM** based financial news extraction platform using **Open AI's API** & **Langchain's** Unstructured URL loader
- Employed **FAISS** for similarity searches, **Open AI's embeddings** for semantic search, model deployment using **Streamlit UI**

Placement Management System | Prof. Mayank Singh [\[Project\]](#) Jan '23 - Apr '23

- Created an interactive working platform for IIT Gandhinagar's Placement Management System in a **4-stage** process
- Used **Flask**, **HTML**, and **CSS** for web-design and frontend integration and **MySQL** to manage the database at backend

Entrepreneurial Project | Blue Swan (Mentor - IIEC) [\[Website\]](#) [\[Sample Report\]](#) March '22 - Aug '22

- Build a Sales optimization platform for Indian bakery segment by estimating net-sales using **Transformer-based** architecture
- Benefitted **2 bakeries** by improving their demand prediction from a **40% to 15%** deviation from actual sales

Bayesian Structural Time Series | Prof. Nipun Batra [\[Report\]](#) Sept '23 - Nov '23

- Applied **BSTs** on generative & weather dataset and compared it with benchmark time series models -**ARIMA & SARIMA**

TECHNICAL SKILLS

Language: Python (Including data analytics libraries) | C/C++ | SQL | Git/GitHub | MS Excel | \LaTeX
Frameworks: Tensorflow | Keras | PyTorch | Power BI | Azure ML Studio | MATLAB | Statsmodels | SKLearn
Courses: Machine Learning (ML), Probabilistic Machine Learning (PML) [IITGN: Prof. Nipun Batra]
Natural Language Processing (NLP), Databases (DBMS) [IITGN: Prof. Mayank Singh]
Deep Learning Specialization by Andrew Ng [DeepLearning.ai] [\[Certificate\]](#)

POSITIONS OF RESPONSIBILITY

Technical Coordinator, Technical Council, IITGN Aug '23 - Present

- Co-Leading & channeling 5 technical societies by facilitating Industrial connections & outreach

Core Committee Member, AI/ML Club, Technical Council, IITGN May '22 - June '23

- Formulated ML Foundation Guide and served as **Team Lead** for CloudPhysician Problem [Inter IIT Tech Meet 11.0]

Coordinator of Events & Initiatives, Entrepreneurship Initiative IITGN May '22 - Apr '23

- Co-Led a team of **20** peers for organizing and budgeting **4** Founders' Meetup & **2** hackathons with **150+** attendees

Senior Events Executive, Amalthea, IITGN Annual Technical Summit May '22 - Apr '23

- Led ICon, managing a **100k** budget, connected with **100+** startup incubations, drew in **140+** teams competing for a **50k** prize

AWARDS & ACHIEVEMENTS

- Secured **1st Position** at IITGN's Annual Machine Learning hackathon [\[HackRush 2023\]](#) FY - 23
- Acknowledged in [Dean's List](#) for **excellent academic performance** in **3** consecutive semesters (IV, V, VI) FY - 22 & 23
- Top 5** finalist at IDE 4.0 National Bootcamp in **Bangalore** for an authentic **Technology-driven Startup Idea** FY - 22