

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	8.67/10	2024
Class XII	Prakash College of Science, Mumbai	90.92%	2020
Class X	K.V.I.S, Mumbai	96.5%	2018

INTERNSHIPS

Capillary Technologies | Software Development Intern

Feb '24 - July '24

1. Project Speedline (Call Center Process Automation)

- Analyzed 6 months of **AST** data to optimize **UK** call center operations with AI automation opportunities for efficiency
- Conducted **CXone** data analysis to integrate call recordings & addressing billing inaccuracies, reducing costs by **35%**

2. AIRA 360 Member Care (Chat-bot Development)

- Optimized **AIRA 360** for 2 orgs, enhancing IM team's efficiency through pre-checks of customer data using chat-bot
- Prompt Testing & feature implementation in backend and implemented **Evaluation Log** link in frontend using **React**

PUMA Group, Bengaluru | Data Science Intern [Cert.]

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 [Cert.]

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

Research Project: LLM Code Similarity | Prof. Shouvick Mondal [FSE Acceptance]

Jan '24 - Present

- Utilized LLMs to generate code from prompts to test their sensitivity & robustness to mutations (**Radamsa**)
- Evaluation metric: **CodeBERTScore & CrystalBLEU** | Tested LLMs: Gemini-pro(001, 1.5), GPT-(3.5 turbo, 4, 4-omni)
- Poster accepted in **A* ACM International Conference on Foundations of Software Engineering (FSE 2024)**

Placement Management System | Prof. Mayank Singh [Proj.]

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] [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

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

Undergraduate Teaching Assistant (UGTA) | ADH Mentor | PAL Mentor, Semester VIII

Jan '24 - Apr '24

Technical Coordinator, Technical Council, IITGN

Aug '23 - March '24

Core Committee Member, AI/ML Club, Technical Council, IITGN

May '22 - Apr '23

Coordinator of Events & Initiatives, Entrepreneurship Initiative IITGN

May '22 - Apr '23

Senior Events Executive, Amalthea, IITGN Annual Technical Summit

May '21 - Apr '22

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
- Achieved **3rd place** in the **Aira Forgemasters Gen AI Hackathon** organized by Capillary Technologies FY - 24