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 Vidyanidhi 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],

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*