Kevin Shah

Senior Undergraduate
Department of Chemical Engineering
Dual Minors in Computer Science & Artificial Intelligence

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EDUCATION

Degree	Institute	CPI/%	Year
B.Tech	IIT Gandhinagar	8.54	2020-2024
Class XII	Prakash College of Science, Mumbai	90.92	2019-2020
Class X	Kapol Vidyanidhi International School, Mumbai	96.50	2017-2018

INTERNSHIPS

- **Data Science Intern | PUMA Group** [Experience Letter] *[May '23 - July '23]*
1. **E-commerce Demand Forecasting**
   - Optimized the demand forecasting process at **category** and **product type** levels across **7 marketplaces**
   - Developed models (**LSTM with Bayesian Optimization, Neural Prophet**) to enhance forecasting granularity
   - Deployed using ML Azure Studio, reducing deviation for the **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 retail store-level attributes and **KPI's** to facilitate **Assortment Planning** at **PUMA Retail**
   - Leveraged **clustering algorithms** (*K-Means*, *GMM*, *t-SNE*, *UMAP*) for analyzing performance patterns
- **Machine Learning Intern | InfyU LABS** [Certificate] *[May '22 - June '22]*
   - Optimized Quality Assurance system for fruits & vegetables using MLP & PLS regression models
   - Performed multi-class classification 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 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]*
   - Developed financial news extraction platform using **Open AI**'s API & **Langchain's** Unstructured URL loader
   - Employs **FAISS** for similarity searches, Open AI's embeddings, deployment using **Streamlit**
- **Placement Management System | Prof. Mayank Singh** [Project] *[Jan '23- April '23]*
   - Created an extensive platform for IIT Gandhinagar's Placement Management System
   - Used **Flask**, **HTML**, and **CSS** to create the platform and **MySQL** to manage the database at the backend
- **Entrepreneurial Project | Blue Swan** (*Mentor- IIEC*) [Website] [Sample Report] *[March '22- Aug '22]*
   - Build a *Sales optimization platform* for Indian bakery segment 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 conventional models -**ARIMA**, **SARIMA**.

AWARDS & ACHIEVEMENTS

- Secured **1st Position** in IITGN's Annual Machine Learning hackathon [**ML HackRush Challenge 2023**]
- Acknowledged in Dean's List for **excellent academic performance** in ¾ eligible semesters (IV, V, VI)
- **Top 5** finalist at IDE 4.0 National Bootcamp in **Bangalore** for an authentic **Technology-driven Startup Idea**

SKILLS & CERTIFICATIONS

- **Language/Tools:** Python (Including data analytics libraries), C/C++, SQL, Git/GitHub, MS Excel, LATEX
- **Framework**: TensorFlow, Keras, **PyTorch**, Power BI, **MS Azure AI**, MATLAB, **SKLearn**
- **Certifications & Coursework:**
  - ➔ 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**], Business Analyst Program[Finlatics]

POSITIONS OF RESPONSIBILITY

- **Technical Coordinator | Technical Council** *[Aug '23 - Present]*
   - Co-Leading & channeling **5** technical societies by facilitating Industrial connections & outreach
- **Core Committee Member | IITGN ML/AI Club** *[May '22 - June '23]*
   - Team Lead for Mid-Prep Problem Statement CloudPhysician [Inter IIT Tech Meet 11.0]
- **Coordinator of Events & Initiatives | Entrepreneurship Initiative IITGN** *[May '22 - April '23]*
   - Top **10** tech-based startups out of **147** teams showcased their innovation at ICON (*Annual Technical Summit*)