

KEVIN SHAH

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EXPERIENCE

SDE-1 | Capillary Technologies, Bengaluru

Aug '24 - Present

aiRA (AI Team) | building Agentic Automation Workflows

- Developed **Audience-Copilot**, an **AI agent** that automates **audience filter creation on UI** via **natural language queries**
 - Designed a **custom agentic workflow**, where **LLM-generated Python code** executes function calls to produce **JSON inference & API payloads**, **tech stack**: Python (asyncio), Tornado server, Redis caching, Postman (API testing)
- Received **Spot Award** for delivering conversational audience agent, used by **3 brands**; demoed to the **CEO and leadership**
- Co-delivered **2 tech talks** on "**AI agents & agentic workflows**" to the **Engineering team**, received +ve feedback from the **CTO**
- Built a **Slackbot** for **product roadmap & backlog management**, actively used by **45+ product team members**
 - Implemented a custom **RAG pipeline**: google-sheets API for data extraction, **Redis** (vector DB), model-agnostic LLM flow, slack-API integration, **Kubernetes**-based deployment
- Formulated **CRD-based SQL & python-based reports** in **Databricks** for **5 clients** across multiple regions for **BI-team**

EDUCATION

Qualification	Department	Institute	CPI/%	Year
B.Tech	Chemical	Indian Institute of Technology Gandhinagar	8.67/10	2024
Class XII	PCM	Prakash College, Mumbai	90.92%	2020
Class X		K.V.I.S, Mumbai	96.50%	2018

Dual Minors in Computer Science Engineering & Artificial Intelligence - IIT Gandhinagar

INTERNSHIPS

SDE Intern | Capillary Technologies, Bengaluru

Feb '24 - July '24

- Analyzed **6 months of UK call-centre data**, detected billing inaccuracies using Python & SQL, **reducing costs by 30%**
- Optimized the *client-master bot* for **2 orgs**, enhancing IM team's efficiency through pre-checks of customer data
- Conducted **prompt-regression testing**, enhanced backend features and integrated **Eval-Log** link in **React** frontend

Data Science Intern | PUMA Group, Bengaluru

May '23 - July '23

1. E-commerce Demand Forecasting

- Optimized demand forecasting process at **category & product** levels across **7 marketplaces** (Eg: Flipkart, Amazon)
- Developed **2 DL-based models (LSTM with Bayesian Optimization & Neural Prophet)** for accurate forecasting
- Deployed models via **Azure ML Studio**, reducing **FTW** category forecasting deviation from **50% to <20%**
- Improved **Planning Team's forecasts by 24%** across all **ECOM** categories (FTW, APP, ACC)

2. Retail Store Clustering

- Identified store attributes & KPIs using **SQL & data visualization (t-SNE, UMAP)** needed for **Assortment Planning**
- Applied (**K-Means & GMM clustering**) to analyze performance patterns across retail store clusters

Machine Learning Intern | InfyU LABS, Gandhinagar

May '22 - June '22

- Enhanced **Quality Assurance** for fruits using optimized **MLP & PLS regression** models
- Performed **multi-class classification** of **5 granular plastic types** using **Random Forest & Logistic Regression (OVR)**

PROJECTS & RESEARCH

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

Jan '24 - Present

- Investigated LLM robustness by generating code from prompts and testing sensitivity to mutations (**Radamsa**)
- Evaluated models using **CodeBERTScore & CrystalBLEU** across Gemini-pro(001, 1.5) & GPT-(3.5 turbo, 4, 4-omni)
- Poster accepted at **A* ACM International Conference on Foundations of Software Engineering (FSE 2024)**

Startup Initiative | Blue Swan (IIEC Mentorship) [[Website](#)] [[Report](#)]

March '22 - Aug '22

- Developed a **sales optimization** platform for the Indian bakery segment using a **Transformer-based architecture**
- Improved **demand prediction** accuracy, reducing deviation from **40% to 15%** for two bakeries.

TECHNICAL SKILLS

Language: Python (incl. data analytics & ML libraries) | C/C++ | SQL | Git/GitHub | MS Excel | \LaTeX
Frameworks: Postman | Redis | PyTorch | Power BI | Tornado/Flask | Databricks | Kubernetes | AWS EC2
Courses:

- Machine Learning (ML), Probabilistic Machine Learning (PML) - Prof. Nipun Batra (IITGN)
- Natural Language Processing (NLP), Databases (DBMS) - Prof. Mayank Singh (IITGN)
- Deep Learning Specialization - Andrew Ng (DeepLearning.ai)

ACHIEVEMENTS

- Dean's List** - Awarded for academic excellence in **four semesters (IV, V, VI & VIII)** FY - 22 & 23
- 1st Place** - IITGN's Annual ML hackathon (*HackRush '23*) FY - 23
- 3rd place** - Aira Forgemasters Gen AI Hackathon (*Capillary Technologies*) FY - 24
- Top 5 finalist** - IDE 4.0 National Bootcamp in Bengaluru for a **technology-driven startup idea** FY - 22