

Faraz Akhtar

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EDUCATION

Indian Institute of Technology, Kharagpur | *Dual Degree (M.Tech + B.Tech) Biotechnology*

Aug 2015 - Jul 2020

EXPERIENCE

Zeno Health - Lead Data Scientist

Oct 2024 - Present | Mumbai

- **Inventory Planning** Developed an in-house inventory planning solution across 150+ stores, warehouses, and e-commerce business, achieving Rs1.3CR annual cost reduction by eliminating third-party dependencies while improving DOH, OOS, and availability metrics. Included building forecast models, business rules, operational constraints, dashboard creation, and metrics analysis.
- **Recommendation Engine** Built recommendation engine using TorchRec and NLP architecture to promote non-medical products in e-commerce/store business, increasing AOM by 26% and cart value by 15%.
- **Fine-tuned Claude AI model** on proprietary database to generate SQL queries for Data and Business teams; enables users to input natural language prompts and automatically produces accurate, complex SQL queries with appropriate joins and conditions, significantly improving data accessibility and efficiency.

Cars24-Data Scientist

Feb 2022 - Oct 2024 | Gurugram

India Pricing

- **Built and scaled core pricing, buyback, and depreciation models** for pan-India used car markets (B2C, C2B), automating price recommendations (including web quotes and pricing adjustments), forward-looking buyback valuations, and sell-through optimization. This work reduced operational costs by 40%, increased sell-through from 12% to 21%, enabled major fintech integrations (e.g., Cred, C24 NBFC), and established key partnerships for loan evaluation with BFL.
- **Developed robust vehicle valuation infrastructure:** delivered condition rating models, dashboards, comprehensive vehicle health APIs, and user-interactive price curves (Orbit) for end-to-end assessment across assortment, listing, and refurbishment projects.
- **Designed and deployed a generative AI chatbot** (using finetuned Llama3 & unsloth AI architecture) that suggest cars based on user preferences and provides price depreciation breakdowns via integrated pricing APIs, enhancing customer self-service, transparency, and sales engagement.
- **Extra:** Mentored 3 individuals employees in understanding whole business in C2B & B2C world along with api development and deployment, Database and more. Maintained Dashboard and important sql queries susceptible to changes along with modules and crons.

Brillio Technologies - Data Scientist

Sep 2020 - feb 2022 | Bengaluru

- **Attrition Prediction:** Developed an end-to-end intelligent system to predict employees who will voluntarily resign in the next 30 days, taking into account demographic data and employee development in the form of projects, termination, recognition and peer-2-peer relation based on their interactions among themselves.
- **Car Damage Identification:** Developed an API generating comprehensive automobile damage reports by analyzing 360-degree car videos. The system detects damage locations and assesses severity using transfer learning with a pre-trained VGG16 model for damage detection and a YOLO5 model for precise damage location and severity assessment.

Self Hosting - Personal Project

India

- Build a homelab architecture from scratch with old system, which houses NAS, Ollama AI, custom services, self hosted apis, development environment, network securities and more. See services on <https://dashboard.farazakhtar.in> and uptime here.
- Homelab leverage opensource projects like omv, nextcloud, firefly, pihole, nginx and more to make use of custom services and self made flask, streamlit services. This resume is also made on self hosted latex application and same with portfolio website. Applications are hosted on kubernetes clusters installed in Ubuntu vm in Proxmox os across 4 old systems.

Tech Stack and Skills

- **Programming:** Python, Sql, Sagemaker, Matlab, Sas, Git, Unicorn, Kubernetes, Docker, bash, linux
- **Libraries & Frameworks:** Scikitlearn, NLTK, Matplotlib, , Keras, Forecasting, OpenCV2, Tensorflow, streamlit, kfserve
- **Data Science and ML:** Catboost, xgboost, RNN, LSTM, YOLO5, VGG16, BERT, NEAT, Q-learning, ANN, A/B Testing, Classification, Regression, TensorFlow, Transformer
- **Software:** Spark, Jupyter, SAS, Microsoft power BI, MS Excel, MS Office, Powerpoint, Sas Enterprise Miner, Snowflake, GCP, AWS, S3, Redshift, MySQL

Certifications

- **2021:** AWS Machine Learning Specialty
- **2020:** Machine Learning with python || SQL for Data Science