

# Kabyik Kayal

📍 Kolkata, West Bengal, India    ✉ scientistk001@gmail.com    🌐 Kabyik.me    in Kabyik-kayal    📺 Kabyik-Kayal

## Experience

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### GenAI Sales Intern

Second Brain Labs

(Remote) Bengaluru, IN  
July 2024 – Sep 2024

- Executed targeted marketing campaigns using GenAI chatbots.
- Resulted in a 32% increase in qualified leads.

## Projects

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### Supa Voice Cloner

[Github](#) — [Live](#)

- Developed a multilingual voice cloning app using cutting-edge XTTS v2 for natural, emotion-rich speaker adaptation in 8+ languages.
- Designed an intuitive, fast UI for real-time speech generation, with support for custom voice uploads and regional dubbing.
- Deployed on Hugging Face Spaces for instant access with GPU acceleration, ensuring scale and global accessibility.
- Integrated post-processing pipeline with audio normalization and download links.

### Anime Recommender System

[Github](#) — [Live](#)

- Trained a Tensorflow Keras Model with a mean squared error of 0.089 incorporating live experiment tracking with CometML for Recommending Animes with a Hybrid System of both User-based and Content-based filtering.
- Data versioning with DVC and GCP Bucket was performed to ensure 0% data loss.
- Built a Flask app with an attractive UI with HTML, CSS and JavaScript. Then Docker Containerized the app and deployed to Google Kubernetes Engine ensuring 100% uptime and scalability.
- Built a Jenkins Pipeline to automate the complete process from data ingestion to deployment on cloud saving more than 70% of time and manual effort.

### Hotel Booking Cancellation Predictor

[Github](#) — [Live](#)

- Developed a LightGBM model with 89% accuracy and 90% Recall to predict whether a customer will cancel their bookings or not.
- Created a Flask app for using the model using HTML and CSS.
- Implemented MLOps Practices by writing modular code, building jenkins pipelines for automated CI/CD and dockerizing the project.
- Deployed the docker image of the project to Google Cloud Run ensuring 100% uptime.

### Holy Cow – AI Image Style Transfer App

[Github](#) — [Live](#)

- Developed a Generative AI web application performing style transfer and face replacement on user-uploaded images using the Google Gemini Nano Banana model.
- Built a robust backend using Flask to handle API requests and integrated Pillow for efficient image processing and pipeline management.
- Deployed as a responsive WebApp on Render.

## Technical Skills

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**Languages:** Python, SQL, GO

**AI/ML:** Scikit-learn, Pandas, MLflow, PyTorch, TensorFlow, LangChain, HuggingFace

**MLOps:** Git, DVC, Docker, ZenML, Jenkins, GCP, AWS, Circle CI, Prometheus, Grafana, Kubernetes, FastAPI

**Data Visualization:** Power BI, Tableau, Matplotlib, Plotly, Excel

## Education

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### Indian Institute of Technology Madras (IITM)

Jun 2024 – Present

BS in Data Science and Applications

- Currently Pursuing Diploma in Programming
- **Coursework:** DBMS, DSA, App Dev, Python, Statistics, Mathematics