Kabyik Kayal

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Experience

GenAI Sales Intern   *(Remote) Bengaluru, IN*
Second Brain Labs   *July 2024 – Sep 2024*

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

Projects

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.

Customer Lifetime Value Predictor   *Github* ↗ — *Live* ↗

- Trained a XGBoost model with 91% accuracy for CLTV prediction.
- Implemented MLOps best practices by designing modular steps and pipelines using ZenML, improving workflow productivity by 40%.
- Deployed on Render Free server with 100% uptime.

Dashboard of Covid-19 with Data Analysis   *Github* ↗ — *Live* ↗

- Performed in-depth analysis of global COVID-19 trends using SQL and Python.
- Created an interactive Tableau dashboard for visualizations.
- Published the Dashboard on Tableau Public.

Technical Skills

Languages: Python, GO, SQL
Data Science & ML: Pandas, Scikit-learn, TensorFlow, XGBoost, LightGBM, MLFlow, CometML
MLOps: ZenML, Jenkins, DVC, Docker, Kubernetes, Git, AWS, GCP
Data Visualization: Power BI, Tableau, Matplotlib, Plotly, Excel

Education

Indian Institute of Technology Madras (IITM)   *Jun 2024 – Present*
BS in Data Science and Applications

- Currently in last term of Foundation Level
- **Coursework:** Statistics, Mathematics, Computational Theory, Python, English