VIDISH BIJALWAN

Machine Learning Engineer | Data Science Intern
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LinkedIn | GitHub | LeetCode | Portfolio

Professional Summary

Machine Learning and Data Science enthusiast with hands-on experience building predictive ML systems for churn prediction, revenue forecasting, computer vision, and optimization. Skilled in Python, SQL, Scikit-learn, XGBoost, LightGBM, PyTorch, data preprocessing, feature engineering, model evaluation, and deployment using Streamlit and FastAPI. Focused on building production-ready ML solutions, analytical pipelines, and business-oriented AI applications.

Education

Graphic Era Hill University, Dehradun **Expected Aug 2027**
B.Tech in Computer Science and Engineering

Kendriya Vidyalaya, Rishikesh **2023**
Higher Secondary Education, Science – PCM

Projects

Saarthi – Assistive AI Device Using ESP32-CAM **Oct 2025 – Nov 2025**
ESP32-CAM, IoT, Computer Vision, STT/TTS, LLM Integration

- Developed an ESP32-CAM based assistive device to support visually, hearing, and physically impaired users through smart glasses.
- Implemented real-time obstacle detection, voice commands, screen reading, and eye-gesture-based interaction.
- Integrated speech-to-text, text-to-speech, and LLM-based automation for hands-free human-computer interaction.

Customer Churn & Revenue Forecasting System **Jan 2024 – Apr 2024**
Python, Scikit-learn, XGBoost, LightGBM, Pandas, NumPy, Streamlit

- Built ML models to predict customer churn and forecast revenue trends for data-driven business decision-making.
- Applied data cleaning, feature engineering, model training, hyperparameter tuning, and evaluation on structured datasets.
- Deployed an interactive Streamlit dashboard to visualize churn risk, revenue trends, and prediction outputs.

Traffic Flow Optimization App **Aug 2023 – Nov 2023**
Python, NetworkX, Random Forest, SVM, Plotly, Matplotlib, Streamlit

- Developed a graph-based traffic optimization system for route planning and congestion-aware decision support.
- Used NetworkX, Random Forest, and SVM to build a hybrid prediction and visualization workflow.
- Trained and tested the system on a Kaggle dataset, achieving 85.7% accuracy.

Technical Skills

Languages: Python, SQL, Java
Machine Learning: Scikit-learn, XGBoost, LightGBM, PyTorch, Random Forest, SVM
Deep Learning: CNNs, Transfer Learning, Computer Vision, NLP
Data Engineering: Pandas, NumPy, ETL Pipelines, Data Cleaning, Feature Engineering
Analytics: SQL Joins, Window Functions, Aggregations, Model Evaluation
Visualization: Matplotlib, Seaborn, Plotly
Deployment: Streamlit, FastAPI, REST APIs
Cloud & MLOps: AWS S3, AWS EC2, Docker Basics, CI/CD Basics
Tools & Databases: Git, GitHub, Jupyter, Kaggle, MySQL, MongoDB

Achievements

- Winner, SAARTHI Hackathon 2025 – Best Startup Idea category.
- Secured Top 5 in Avishkar 2024, GEHU for a real-time blood donor matching platform based on blood group and location.

Certifications

- Johnson & Johnson – Robotics and Controls Job Simulation, Forage **Mar 2026**
- DevOps on AWS – AWS Training & Certification **Aug 2025**
- Complete MLOps Bootcamp: 10+ End-to-End ML Projects – Udemy **Jun 2025**
- Complete Generative AI Course with LangChain & HuggingFace – Udemy **May 2024**
- Innovation, Business Models and Entrepreneurship – NPTEL, IIT Roorkee **Oct 2024**