Krishna Birla

Pashan, Pune, Maharashtra

9588620228 | krishnabirla336@gmail.com | krishnabirla | Krishna9588

Summary

I am passionate about artificial intelligence, machine learning, backend development, and drone technology. I enjoy working on impactful projects that help me grow and contribute meaningfully. I adapt quickly, collaborate effectively in teams, and communicate confidently. With experience hosting college events and actively contributing to open-source projects, I am committed to continuous learning and professional growth.

Experience

Open Source Contribution - Datakind Financial Inclusion DataKit Mar 2025 – Apr 2025

Aroma Brand Solution - Backend Developer Intern Jan 2025 – Mar 2025

- Developed RESTful APIs for efficient data exchange and seamless backend operations.
- Build intelligent backend features using Python.
- Collaborated with cross-functional teams to design and deploy scalable features that enhance user experience. Interactive UI, worked on SEO, and stored session history.

Member of Placement Cell at ISBM College of Engineering Jan 2025 – Present

Technical Skills

- **Languages** – Python, MySQL, JavaScript
- **Frontend** – HTML, CSS.
- **Technologies** – Git, Git Hub, Google Collab, Huggingface.
- **Concepts** – Object-Oriented Programming, Machine Learning, RAG, Python Libraries.
- **Soft Skills** - Communication, Problem Solving, Team Work

Projects

1. **Marketing Analysis - Case Study**| Python, Pandas, NumPy. | Project Link
   Analyzed two sets of structured sales data to identify the **top 3 best-selling products** and **10% loyal customers**, supporting inventory optimization and customer retention. Used Python, Pandas, and NumPy for data cleaning, aggregation, and statistical analysis. Exported results to CSV for stakeholders. review and decision-making.
2. **Botnet-Detection-using-ML** | Python, Pandas, Scikit-learn, CTU-13 Dataset. | Project Link
   Built a machine learning based botnet detection system using Python, Scikit-learn, **Random Forest**, and network traffic analysis on the **CTU-13 dataset**. Included data preprocessing, **feature extraction**, classification, and **prediction** for cybersecurity threat identification.
3. **Land Price Prediction & Trend Forecasting** | Python, NumPy, Scikit Learn, and Matplotlib.
   Developed a Linear Regression model to predict land prices and forecast trends using historical data (location, area, market conditions). **Achieved 85% accuracy** through feature engineering and k-fold cross-validation. Visualized the economic factors' impact on prices with Matplotlib.
4. **Intelligent Video-Based Q&A** | Python, Llama 3, Hugging Face, SQL.
   Built an AI-powered Q&A system using the YouTube **API to extract subtitles** and store them in a database. Applied **NLP to generate 10 key questions** and **used Llama 3** (Hugging Face) for accurate answers. Optimized database queries for fast and efficient retrieval.

Education

Pursuing B.E. in **Artificial Intelligence and Machine Learning** Nov 2022 – Present

College – ISBM College of Engineering, Pune.

CGPA - 8.09