BIRAJ BUDDHACHARYA

Data science and machine learning enthusiast with hands-on experience in predictive modeling, API integrations, and full-stack development. Skilled in end-to-end projects like RiskVision and SongSensei, with expertise in programming, machine learning, and data analysis. Seeking to apply my technical and collaborative skills to drive impactful, data-driven solutions.

CONTACT

- +977 9841056800
- birajbuddhacharya@gmail.com
- github.com/otakuGod0/
- linkedin.com/in/biraj-buddhacharya/

SKILLS

Programming Languages: Python, C, JavaScript, SQL, Bash/Shell Scripting

Machine Learning: Scikit-Learn, Pandas, Matplotlib, Seaborn

Web Development: HTML, CSS, JavaScript, Flask, Streamlit

APIs & Tools: YouTube API, Spotify API, Docker

Frameworks: Flask, Streamlit, rich

Version Control: Git, GitHub

Concurrency & Parallelism: Multiprocessing, Multithreading

Soft Skills: Problem-solving, teamwork, effective communication, adaptability, analytical thinking, time management

RELEVENT EXPERIENCE / PROJECTS

Personal Project: RiskVision
Technologies: Flask, Streamlit, Scikit-Learn (Logistic Regression), Docker
GitHub: github.com/OtakuGod0/RiskVision

- Developed a predictive model with 80%+ accuracy to assess the risk of diseases like stroke and heart disease from user-provided data.
- Built a backend API using Flask and a front-end interface with HTML and CSS, achieving a 50% faster response time than initial prototypes.

Personal Project: SyncBeats
Technologies: yt-dlp, FTP, YouTube API, Multiprocessing, Multithreading, rich (for CLI)
GitHub: github.com/OtakuGod0/SyncBeats

- Created a music synchronization system that sync youtube playlist and locally.
- Implemented multiprocessing and multithreading to handle parallel downloads and file transfers, further decreasing synchronization time by 40% for large files.
- Developed a visually enriched CLI using rich resulting in 20% increase in user satisfaction based on user feedback.

Team Project: E-commerce Website
Role: Backend and Frontend Developer
Technologies: HTML, CSS, JavaScript, Flask
GitHub: github.com/OtakuGod0/ABC-Books

- Collaborated with a team of four to build a full-stack e-commerce platform, managing backend functionality and enhancing the frontend user experience.
- Improved user retention by 20% through responsive design and a streamlined checkout process.

Personal Project: SongSensei (Ongoing)
Technologies: Spotify API, Scikit-Learn

- Building a song recommendation model that personalizes suggestions based on audio features, to achive over 70% improvement in recommendation accuracy over YouTube's existing system.

EDUCATION

+2 NEB Science
National School of Sciences, NSS

Bsc. IT
Techspire, Asia Pacific University (APU)
ongoing

Data Science Certification
Mind Risers
Completed coursework in data analysis, machine learning, and model evaluation, with practical experience using Python libraries and data science tools.

Deep Learning Specialization
Deeplearning.ai, Coursera
(on going)