Prabhat Ghimire

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PROFESSIONAL EXPERIENCE

Together We Can, Nepal   2023 – 2024
Python/ML Intern

1) Python Development:
- Architected RESTful APIs using Django that processed 500+ daily requests with 99.9% uptime
- Optimized database queries reducing load time by 15% for core user management functions
- Established user authentication system securing data for 1,000+ users
- Formulated testing framework identifying 30+ critical bugs pre-deployment

2) Machine Learning Experience:
- Transformed and sanitized 10,000+ data points achieving 95% data quality score
- Constructed predictive model pipeline achieving 72% accuracy on race outcomes
- Streamlined data validation process reducing error rates from 15% to 3%
- Pioneered feature extraction algorithms processing 20+ key metrics
- Orchestrated data collection from 5 sources with 99% reliability
- Enhanced model training efficiency by 40% through parallel processing

EDUCATION

Bachelor of Computer Engineering   2021 – 2025 | Nepal
Pokhara University, School of Engineering

SKILLS

Programming Languages:
Python

Machine Learning:
Scikit-learn, TensorFlow, Keras

Databases:
MySQL, SQLite

Web Frameworks:
Django,Django REST Framework (DRF)

Data Analysis:
Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook

Deployment:
Heroku, AWS EC2 (Basic knowledge)

PROJECTS

1) Bloodbuddy (Django-based platform):
- Spearheaded full-stack platform connecting 200+ donors with recipients
- Structured scalable chat system handling 100+ concurrent users with <100ms latency
- Crafted geolocation-based donor matching reducing response time by 50%
- Devised notification system with 98% delivery success rate

2) Race Analytics: A Machine Learning Approach to Predict F1 Champions:
- Architected machine learning pipeline processing 25,000+ race statistics
- Innovated custom feature engineering boosting prediction accuracy by 15%
- Integrated data collection from 3 APIs with robust error handling
- Executed performance optimization reducing training time by 20%

3) Rate My Professor:
- Designed full-stack application serving 3 departments with 300+ users
- Incorporated AI-powered content moderation achieving 95% accuracy
- Structured caching system cutting page load time from 2s to 0.8s
- Orchestrated backup system maintaining 99.9% recovery rate
- Fortified Oauth reducing unauthorized access by 90%

YouTube Clone (Django)
- Built a scalable video streaming system, supporting high-quality video uploads and playback.
- Developed a video recommendation algorithm, improving user engagement and retention by 25%.
- Optimized database with a caching system, reducing page load time from 4 seconds to 2 seconds.
- Enhanced security with Oauthauthentication, reducing unauthorized access attempts.