

Prajwol Chhetri

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EDUCATION

Kantipur City College, Purbanchal University

Post Graduate Diploma in Computer Applications

Kathmandu, Nepal

*December 2024 – Present**

Islington College, London Metropolitan University

Bachelor of Science (Hons) in Computing

Kathmandu, Nepal

Aug 2019 – Dec 2022

Grade: 3.86/4.00, First Class Honours

EXPERIENCE

Niural AI

Software Engineer - II

New York, United States

*Dec 2024 – Present**

- Fine-tuned “Emma,” a GPT-based LLM on payroll data, deployed via FastAPI on Fargate; achieved 90% task-execution precision.
- Orchestrated agentic workflows via AWS Step Functions (master SuperAgent + child agents) for end-to-end autonomous payroll runs.
- Engineered a Donut-inspired VDU pipeline on AWS SageMaker to parse invoices at 95% accuracy, reducing manual review by 70%.
- Built Python microservices on AWS EKS with Redis caching, ensuring 99.9% uptime and <100-200 ms latency.
- Implemented CI/CD for backend and ML (GitHub Actions, Docker, Kubernetes Helm), enabling zero-downtime model rollouts.

Khalti Private Limited

Software Engineer (Team Lead) & R&D Consultant

Lalitpur, Nepal

Jun 2022 – Jul 2025

- Led a 5-engineer agile squad, introducing practices which boosted delivery velocity by 25% and cut release cycles from 4 weeks to 2 week.
- Spearheaded R&D projects for AI-powered fraud analytics and user-behavior insights: prototyped an XGBoost model that flagged 25% more fraudulent attempts.
- Built an OCR-driven KYC microservice (Tesseract + custom CNN) packaged in Docker, improving document-extraction accuracy by 30% and eliminating 80% of manual verifications.
- Developed high-performance REST APIs with p99 latency <200 ms and 99.9% uptime, leveraging predictive autoscaling policies based on traffic forecasts.
- Mentored interns and junior developers, running weekly/bi-weekly knowledge transfer sessions.
- Collaborated with product, compliance, and banking partners to define and roll out 10+ new payment integrations, expanding Khalti’s financial network by 25% across Nepalese BFIs.

Herald College

Final Year Project Supervisor

Kathmandu, Nepal

*Sep 2024 – Present**

- Supervise 40-credit undergraduate capstones in AI/ML, advising on research methods, technical development, and documentation.

Early Experience

- **Nakshatra Techno Hub** – *Python Instructor* (Jun 2023 – June 2024): Led Python/ML courses, designed course materials, implemented a project-based learning approach that improved placement rates.
- **Eat Ziffy Pvt. Ltd.** – *Software Engineer & Intern* (Aug 2021 – June 2022): Built a DBSCAN route optimizer reducing delivery times by 20%; developed a LightGBM recommender APIs that increased repeat orders by 12%.

PUBLICATIONS

- **Chhetri, P., & Kshetri, S. R.** (2024). *Decoding Facial Recognition: Analyzing Standalone Euclidean and KNN Distance Metrics*. Journal of Science and Technology, 4(2), 51–57. <https://doi.org/10.3126/jost.v4i2.78952>

PROJECTS

- EOERS** | *Python, Django, C#, PostgreSQL, Redis, Docker, Nginx, AI/ML* Nov 2022 – Present*
- Engineered a scalable government-backed system for Nepal's Department of Foreign Employment, supporting 250K+ users and 15K+ concurrent requests, generating \$7.5M+ in revenue.
 - Designed AI-powered analytics modules to monitor transaction success and engagement metrics, contributing to system-wide optimizations.
 - Explored large-scale system design patterns integrating ML pipelines to improve performance, anomaly detection, and adaptive load balancing under high traffic.
- Gadak** | *Python, FastAPI, PostgreSQL, Docker, Jupyter Notebook, Computer Vision* Nov 2021 – Apr 2022
- Built a full-stack facial attendance system using FastAPI and Angular; supported reliable identity verification in real-time settings.
 - Developed facial recognition modules with HOG features, Linear SVM, and KNN classifiers—achieving high accuracy.
 - Applied Scikit-learn for training and hyperparameter tuning; used Jupyter Notebook and Matplotlib for detailed analysis and model evaluation.
 - Contributed to open-source research by evaluating trade-offs between models and dataset constraints in applied computer vision.

TECHNICAL SKILLS

Languages: Python, C++, C, SQL, NoSQL, Bash, JavaScript, C#
AI/ML: Scikit-learn, Pandas, NumPy, OpenCV, Matplotlib, Seaborn, Transformers (HuggingFace), LangChain, LLaMA (3.1/3.2), RAG, OCR, VLMs
Frameworks & Libraries: FastAPI, Flask, Django, PyTorch, TensorFlow, ASP.NET
Cloud & DevOps: AWS, Docker, Kubernetes, Git, GitHub Actions, CI/CD pipelines
Systems & Tools: Jupyter Notebook, VS Code, Vim, Linux (Ubuntu/Debian), $\text{\LaTeX}$, Agile & Scrum
Specialized Knowledge: System Design, Distributed Systems, Backend Architecture, Computer Vision, Machine Learning, Data Analytics, Cryptography, Linux Administration, Technical Documentation
Relevant Coursework: Linear Algebra; Probability & Statistics; Calculus I-III; Artificial Intelligence; Data Structures & Algorithms

AWARDS

- Innovator's Edge Award** Khalti Pvt. Ltd., 2024 Jan
- Recognized for leading innovative engineering solutions among a team of 75+ engineers, contributing to impactful system-level improvements.
- Student Academic Representative** Islington College, 2021 Aug
- Elected for academic excellence and leadership, representing the voice of 700+ students in curriculum and academic matters.

VOLUNTEERING

- Mentor, IT Students of Nepal (ITSNP)** 2024 - Present*
- Mentor at Nepal's largest tech community (~100K members), leading hands-on workshops in programming and introductory machine learning to foster technical growth, empower aspiring engineers, and promote inclusive learning within the community.
- Volunteer, United Nations Volunteer (UNV)** Jun 2022 - Sep 2022
- Collaborated with an international team to engineer a full-stack web platform for Universal Versatile Society, supporting sustainable agriculture and empowering farmers. Authored technical documentation and contributed to scalable solutions with lasting social impact.