

BIPASNA DULAL

📍 Kathmandu ✉ bipasna.dulal75@gmail.com 📞 9748722415 🌐 in/bipasna-dulal-0110bd 📄 github.com/bipasnadulal

SUMMARY

AI-focused Computer Science undergraduate with hands-on experience in machine learning, deep learning, and AI-powered web applications. Skilled in building end-to-end ML models, CNN-based image classifiers, and AI-integrated systems using Python, TensorFlow, Scikit-learn, and full-stack technologies. Passionate about developing scalable AI solutions that address real-world problems.

EXPERIENCE

UI/UX Design Intern | Figma

Fusemachines

September 2025 - December 2025, Kathmandu, Nepal

- Designed key workflows including job management, candidate pipeline, user roles, and activity history for jobs and candidates within an internal HR system.
- Created low and high-fidelity wireframes, mood boards, user flows, and reusable component systems to streamline design consistency.
- Enhanced usability by refining candidate movement, interview stages, and error handling, improving overall user experience.
- Collaborated with developers, QA, and product mentors to deliver practical, implementation-ready designs aligned with product goals.

PROJECT

Bird Feather Color Classification System | Python, TensorFlow, Keras, Gradio

github.com/bipasnadulal/BirdFeatherClassification

- Developed a CNN model to classify 12 bird feather colors using ~2,400 images
- Achieved 99.5% accuracy with high precision and recall
- Applied image augmentation using Albumentations
- Built a Gradio web interface for real-time image classification.

Janta ko Aawaj – C2G2C E-Governance Complaint System (Final Year Project) | Next.js, Django, SQLite, ML (Naive Bayes, Logistic Regression, SVM)

github.com/bipasnadulal/JantaKoAwaj-FYP

- Developing a grievance redressal system where citizens post complaints as polls and vote to validate issues.
- Integrated ML-based spam detection to filter irrelevant complaints.
- Automated threshold-based alerts (25%, 50%, 75%) to notify authorities and media.
- Built full-stack system integrating AI with civic engagement.

Smart Calculator – AI-powered Web Application

- Developed calculator that recognizes handwritten math expressions with AI.
- Designed React canvas frontend & FastAPI backend for real-time calculations.

Mobile App Design for Anu Kitchen | Figma

github.com/bipasnadulal/Anu-Kitchen

- Designed high-fidelity restaurant ordering app.
- Conducted user research and created complete UI system.

EDUCATION

Bachelor of Science in Computer Science and Information Technology

Tribhuvan University, National College of Computer Studies (NCCS) • April, 2022 - Present

SKILLS

Languages: Python, Java, C++, C, C# (.NET)

AI/ML: TensorFlow, Keras, Scikit-learn, CNNs, Machine Learning Models (NB, LR, SVM), Image Augmentation, Gradio

Web: React, Next.js, Django, FastAPI, HTML, CSS, JavaScript, PHP

Databases: MySQL, Oracle, SQL Server Management Studio (SSMS), SQLite

Tools & Design: Git, Figma, .NET Framework

Concepts: Data Structures and Algorithms, Deep Learning (CNNs), Software Engineering