

Bishal Shrestha

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PROFESSIONAL PROFILE

Aspiring Machine Learning Engineer with hands-on experience in Deep Learning (PyTorch) and Statistical Analysis. Developed high-accuracy projects in Medical Imaging (CNN) and NLP. Certified by DeepLearning.AI (Andrew Ng).

TECHNICAL SKILLS

Languages: Python, SQL (Intermediate), Bash

Machine Learning: PyTorch, Scikit-learn, NumPy, Pandas, OpenCV

NLP: SpaCy, NLTK, TF-IDF, Sentiment Analysis

Concepts: CNN, Transfer Learning, Regression/Classification, Data Augmentation

Tools: Git, GitHub, Jupyter, VS Code, Google Colab

PROJECTS

Skin Cancer Detection | Python, PyTorch

- CNN to classify 7 lesion types (HAM10000 dataset)
- Data augmentation improved generalization
- Achieved 91.5% validation accuracy

Sentiment Analysis Classifier | Python, NLTK, Scikit-learn

- Processed 5,000+ reviews, performed tokenization & lemmatization
- Logistic Regression model F1-Score: 0.88

Customer Churn Prediction | Python, Scikit-learn

- Predicted attrition for 7,000+ users, handled imbalance with SMOTE
- Random Forest & Decision Tree classifiers, AUC-ROC: 0.85

Family Member Recognition | Python, PyTorch, OpenCV

- Facial recognition with Haar Cascades and CNN
- Real-time inference on 500+ custom images

EDUCATION

B.Sc. Computer Science & Information Technology, Tribhuvan University – Godawari College, Itahari

- Expected Graduation: 2028 (2085 BS)
- Relevant Coursework: AI, Data Mining, Statistics, Linear Algebra

CERTIFICATIONS

- Neural Networks & Deep Learning – Coursera (DeepLearning.AI)
- Supervised ML: Classification & Regression – Coursera
- Deep Learning with PyTorch – DataCamp
- NLP with SpaCy – DataCamp
- Intermediate SQL – DataCamp

LEADERSHIP & INVOLVEMENT

Treasurer | Godawari IT Club

- Manage budgets for events, workshops, and hackathons
- Coordinate 10+ members for technical seminars