Gaurab Shrestha

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PROFILE

Detail-oriented and passionate Computer Science graduate with hands-on experience in data analysis, machine learning, and deep learning. Skilled in Python, NumPy, Pandas, Scikit-learn, TensorFlow, and PyTorch, with a strong foundation in building models for NLP, computer vision, and anomaly detection. Comfortable working with low-resource languages and developing AI-driven solutions for social impact. Eager to contribute to data-driven decision-making and intelligent systems in a dynamic, growth-oriented environment.

EDUCATION

Master of Science in Computer Science 2024 – 2025
York St John University, London Campus London,
69.33% United Kingdom

Bachelor of Engineering in Computer Engineering 2017 – 2022
Paschimanchal Campus (WRC), IOE, Tribhuvan University Pokhara, Nepal
67.57%

PROFESSIONAL EXPERIENCE

Data Analyst Trainee 05/2022 – 09/2022
Yarsha Soft Pvt. Ltd. Kathmandu, Nepal

- Conducted explanatory data analysis, cleaning, and visualization to drive actionable insights.
- Mastered tools like Power BI and Tableau to create dynamic dashboards for storytelling and KPI tracking.
- Collaborated with the digital marketing team to evaluate campaign performance, improve customer retention, and enhance overall digital strategy.
- Supported data-driven decision-making by identifying areas for optimization in marketing initiatives and digital performance metrics.

PROJECTS

Music Recommendation Based on Facial Emotion Recognition

- Developed a GUI-based system to recommend songs based on facial emotion recognized by the system.
- Collected and curated a custom dataset of 4,336 facial images from Google, CK+48 dataset, and international facial emotion databases like KDEF, etc., representing seven emotion classes.
- Implemented and compared three basic machine learning algorithms along with CNN for emotion classification using FER-2013, CK+48, and a custom dataset, achieving 76% accuracy with SVM and 89% accuracy with CNN on the custom dataset.

Performance Evaluation and Analysis of Machine Learning Algorithms in Stock Price Prediction

- Designed, implemented, and evaluated multiple machine learning models (e.g., regression, tree-based, time series, and neural networks) to predict stock prices based on historical market data.
- Conducted in-depth performance analysis using MSE, RMSE, and MAE metrics to benchmark predictive accuracy and computational efficiency.
- Explored the effects of dataset size and splitting techniques, feature engineering, and data preprocessing techniques.

Semantic Segmentation of Multimodal Brain Tumor Dataset (BraTS2020)

- Developed a deep learning model to perform semantic segmentation of brain tumours (Gliomas) using the BraTS2020 dataset, including multimodal MRI scans (T1, T2, T1ce, and FLAIR).
- Utilized the BraTS2020 dataset, comprising annotated MRI scans with ground truth labels for enhancing, non-enhancing, and necrotic tumour regions.
- Designed and trained a U-Net or its variants (e.g., U-Net, Attention U-Net) for segmentation tasks, leveraging transfer learning and advanced architectures.

SKILLS

Programming
Python, JavaScript

Data Scrapping
BeautifulSoup, Selenium

Data Analysis
Power BI, MS Excel, Tableau

Database & Data Warehouse
MySQL, PostgreSQL, MongoDB

Machine Learning
Numpy, Pandas, Scikit-learn, TensorFlow, Keras, PyTorch

CERTIFICATES

Data Visualisation: Empowering Business with Effective Insights
By Forage and Tata

SQL for Data Science
By Coursera

Fundamentals of Visualization with Tableau
By Coursera