Mansura Mokbul

Machine Learning Enthusiast | Committed to Advancing ML Applications

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Profiles

 Mansura Mokbul

 Mansura28

Summary

Machine learning enthusiast with hands-on experience in supervised learning, data analysis, and building predictive models. Passionate about advancing machine learning applications and seeking opportunities to contribute to impactful projects. Aiming to develop deep expertise as a Machine Learning Engineer.

Course Work

Data Structure, Algorithm Design & Analysis, Object-Oriented Programming, Computer Networking, Database Management Systems, Web Engineering, Software Engineering, Compiler Construction, Operating System, Artificial intelligence, Machine Learning, Deep Learning.

Education

North East University Bangladesh **January 2020 – January 2024**
Computer Science and Engineering B.Sc. Engineering
3.68/4

Projects

Handwritten Bengali Vowel Recognition using Few-shot Learning (Thesis)
- Applied few-shot learning with only 55 labeled images, leveraging data augmentation and HOG features.
- Trained a Prototypical Network to classify images using distance-based prototype matching.

Algorithms: Prototypical Networks, HOG.

Ingredients Generation from Food Image
- Utilized ResNet-50 for feature extraction and trained a custom FoodGenerator neural network.
- Built a Streamlit interface for predicting food titles and ingredients from uploaded images.

Algorithms: ResNet-50, FoodGenerator neural network.

Heart Disease Prediction
- Developed a text-based interface for predicting heart disease using Logistic Regression, KNN, or SVM.
- Enabled user input for key health features to dynamically select and run prediction models.

Algorithms: Logistic Regression, K-Nearest Neighbors (KNN), Support Vector Machine (SVM).

Credit Scoring Model
- Created a logistic regression model to predict loan outcomes as "good" or "bad" based on financial data.
- Included decile analysis to optimize loan approval thresholds and balance profitability and risk.

Algorithms: Logistic Regression, Decile Analysis.

Emotion Recognition from Speech
- Extracted MFCCs from speech and trained an LSTM model to classify emotions such as happiness, anger, and sadness.
- Utilized deep learning techniques for accurate emotion recognition from audio inputs.

Algorithms: Long Short-Term Memory (LSTM), Mel-frequency cepstral coefficients (MFCCs).

Volunteering	❖ **NEUB CSE Society** Senior Executive member North East University Bangladesh **June 2023 - Present** ❖ **NEUB CSE Society** Assistant General Secretary North East University Bangladesh **March 2022 - June 2023**
Skills	**Programming Languages:** Python, Java, Go, SQL, C **Database:** MySQL **ML/DS Libraries:** scikit-learn, TensorFlow, PyTorch, pandas, numpy **ML Algorithms:** Linear Regression, Logistic Regression, Decision Trees, SVM, K-Means Clustering, Naive Bayes, PCA, Gradient Descen **Tools:** Git, Jupyter Notebook, Google Colab, Excel
Interests	Cooking, Reading, Self-improvement.
Certifications	❖ **Data Science & Machine Learning with Python for Beginners** Ostad **September 30, 2024 – Ongoing** ❖ **30 days masterclass on Data Analytics** Pantech Prolabs India Pvt Ltd **October 2, 2023 - November 13, 2023** ❖ **21st Century Employability Skilling Program** Wadhwani Foundation **November 09, 2023** ❖ **30 days internship on Machine Learning** Pantech Prolabs India Pvt Ltd **August 31, 2023 - October 3, 2023** ❖ **Participation in "Introduction to bdapps-National Appstore"** bdapps(A Concern of Robi Axiata Ltd.) **August 21 2021** ❖ **Participate in the ICPC Asia Dhaka Regional Preliminary Contest 2020**
Languages	Bengali, English, Hindi.