Shahidul Haque Shaheen

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PROFILE

I am passionate about Data Science, with two years of learning and practical experience. I have strong programming skills and enjoy solving data problems. My dedication to learning helps me constantly improve my abilities and understanding in this field. I am hardworking, determined, and always eager to grow, seeking opportunities to expand my knowledge and make meaningful contributions in Data Science.

SKILLS SUMMARY

Programming Language : Python, SQL, JAVA, HTML, CSS, C, C++.
Python Libraries : Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras.
Machine Learning : Supervised Learning (Linear Regression, Logistic Regression, Naïve Bayes, Decision Trees Polynomial Regression, Regularization, Gradient Descent), Unsupervised Learning (K-Means Clustering, Principal Component Analysis (PCA)).
Deep Learning : Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN), Long Short-Term Memory (LSTM).
Natural Language Processing : Text Preprocessing, Tokenization, Sentiment Analysis.
Feature Engineering : Feature Scaling (Normalization, Standardization), Encoding (One-Hot, Label, Target), Feature Selection (Mutual Information), Dimensionality Reduction (PCA, t-SNE), Handling Missing Data, Outlier Detection.
Software : Microsoft Power BI, XAMPP, MySQL Workbench.
Office Application : Excel/Sheets, Word/Docs, PowerPoint/Slides, LaTeX.
Soft Skills : Organizing, Collaborating, Teaching, Writing.

EDUCATION

BRAC University FALL 2019 – FALL 2023
B.Sc. in Computer Science and Engineering CGPA: 3.58/4.00
Relevant Courses: Data Structures, Algorithms, Database Systems, Artificial Intelligence, Neural Networks, Mathematics for Machine Learning and Signal Processing, Machine Learning, Software Engineering.

NOTABLE PROJECTS

- Real Estate Price Prediction using Data Science - **GitHub Link**.
  - Developed a predictive model to estimate real estate prices based on historical data.
  - Used Python with libraries such as Pandas, NumPy, and Scikit-Learn for data preprocessing and model building.
  - Implemented regression algorithms, including Linear Regression and DecisionTreeRegressor, to improve accuracy.
  - Evaluated model performance using Cross Validation and GridSearchCV metrics.
- Spam Message or Email Detector using Machine Learning - **GitHub Link**.
  - Built a classifier to detect spam messages and emails with high precision.
  - Applied NLP techniques for text preprocessing, such as tokenization and TF-IDF vectorization.
  - Used Python with Scikit-Learn to train models, Naïve Bayes.
  - Evaluated the model on metrics like accuracy, precision, and recall to optimize performance.

RESEARCH EXPERIENCE

Undergraduate Research / Thesis — BRAC University - GitHub Link.

- Conducted an undergraduate thesis on Deep Learning (Image Classsification) under the supervision of Dr. Jannatun Noor.
- **Title :** CattleSavior: Towards Implementing an Advanced External Disease Detection System through Deep Learning.

RESEARCH INTEREST

- Machine Learning
- Deep Learning
- Image Processing
- Natural Language Processing
- Human Computer Interface
- Generative artificial intelligence

REFERENCES

Jannatun Noor Mukta,
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