Syeda Jannatul Ferdous

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Summary

CSE graduate and backend-focused developer with hands-on experience building web applications using PHP, Laravel, MySQL, JavaScript,jQuery, HTML5, CSS3 and RESTful APIs. Worked on a factory workflow system (Geocil Automation), a Laravel-based news portal and a core PHP/MySQL platform (PoshaPrani), with strengths in SQL, OOP, MVC, API integration, testing and debugging, and growing skills in React/Next.js for modern full-stack development.

Education

B.Sc. in Computer Science and Engineering
BRAC University *July 2020 – October 2024*

- **CGPA:** 3.51 / 4.00

Higher Secondary School Certificate (Science)
Dhaka City College *2017 – 2019*

- **GPA:** 5.00 / 5.00

Secondary School Certificate (Science)
Monipur High School and College *2015 – 2017*

- **GPA:** 5.00 / 5.00

Experience

Confidence Infrastructure PLC [September 2025- Continue]
IT Intern *[Sonargoan Road, Dhaka]*

- Built a software application named- Geocil Automation for tracking the production process of Geocil bags with lab testing using PHP, CSS, HTML, JavaScript, REST API, and AJAX.
- Automated the entire production process, reducing manual hours and improving operational efficiency.
- Collaborated with team members to ensure seamless integration of the software with the company's existing systems.
- Developed real-time data tracking and reporting features for production stages and lab tests, streamlining operations.
- **Technical Skills:** PHP, CSS, HTML, JavaScript, REST API, AJAX, Full-stack Development, Data Integration.
- **Soft Skills:** Teamwork, Communication, Problem Solving, Technical Documentation.

Projects

PoshaPrani [Link] | *HTML, PHP, MySQL*

- Developed a website where animal lovers can find their necessary things along with grooming, veterinary service available.
- Included features such as- grooming facilities can be availed as per customer's choice, product restock system with real time inventory management, product wishlist, veterinary service with disease history and special discount for loyal customers.

News Website [Link] | *Javascript, HTML, CSS, Laravel(PHP)*

- Developed a website to provide news and advertisement for viewers.
- Used Laravel to implement this project and included features of categorical news viewing with keywords, recommendations, monetization Features and integrated user interaction by adding email and newsletters section.

Rainfall Prediction [Link] | *Python, Pandas, Scikit-learn, Matplotlib*

- Developed a machine learning model to predict rainfall based on weather data.
- Preprocessed data by handling missing values, normalization, and feature selection.

- Built and evaluated regression models like Linear Regression and Decision Tree, using metrics such as Mean Absolute Error (MAE) and R-squared.
- Visualized feature correlations and model performance using matplotlib and seaborn.

Cattle Disease Prediction System [Link] | *Python, Scikit-learn, Keras, XGBoost*

- Built a machine learning model to predict cattle diseases based on symptoms and animal characteristics using Decision Tree, Random Forest, and XGBoost.
- Applied label encoding and SMOTE to handle categorical data and balance the dataset for more accurate predictions.
- Evaluated model performance with accuracy, F1 score, and confusion matrices, providing insights into disease detection for veterinarians and farmers.

Heart Disease Prediction [Link] | *Python, Scikit-learn, Pandas, XGBoost*

- Built a machine learning model to predict heart disease using patient health data with Logistic Regression, Random Forest, and XGBoost.
- Preprocessed data with label encoding, scaling, and SMOTE to manage categorical variables and class imbalance.
- Evaluated model performance through accuracy, F1 score, and confusion matrix to determine the best predictive approach.

News Bias Detection [Link] | *Python, Scikit-learn, NLTK*

- Engineered a text classification model to detect political bias (left, center, right) in news articles.
- Applied NLP techniques and TF-IDF vectorization for robust feature extraction.
- Trained and evaluated models including Logistic Regression and Random Forest using accuracy and F1-score.

Technical Skills

- **Programming Languages:**: HTML, PHP, JavaScript, Python
- **Databases**: MySQL
- **Frameworks Libraries**: Laravel (PHP), Scikit-learn
- **Tools**: Matplotlib, Seaborn, Pandas
- **Version Control:**: Git, Github

Languages

- Strong reading, writing and speaking competencies for English and Bangla

References

Dr. Md. Khalilur Rahman

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