Shad Abdullah

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About Me

I'm a Computer Science graduate who enjoys solving problems, building web applications, and exploring new ways to use machine learning. I thrive in collaborative environments, value teamwork, and am excited to contribute innovative ideas in the fast changing tech world.

Work Experience

Data Analytics Intern | eSystems Research and Development Lab Sep 2023 – Dec 2023

Completed four months of Virtual Training on Industrial Practice and Learning on Data Analytics Program, developed by eSystems Research and Development Lab under a research grant from the ICT Division, Government of Bangladesh.

- Developed and built a website and optimized data pipelines using Python, SQL, and Pandas.
- Visualized data insights using Matplotlib to support data driven decisions.
- Worked on big data projects, integrating Flask and Angular frameworks for web-based data visualization.
- Achieved 100% completion in task completion, communication, and coding skills assessments.

Education

Bachelor of Science in Computer Science and Engineering Jan 2019 – Feb 2024

North South University, Dhaka, Bangladesh

Skills

- **Programming Languages:** Python, C, PHP, SQL
- **Web Technologies/Frameworks:** HTML, CSS, Bootstrap, Flask, Angular
- **Data Science & Machine Learning:** Pandas, Matplotlib, Seaborn, Machine Learning
- **Database Management:** PostgreSQL, MySQL, pgAdmin
- **Tools:** VS Code, GIT, Jupyter Notebook, PyCharm, WebStorm, Microsoft Power BI
- **Other Skills:** Research, Fast-learner, Communication and Coordination, Team Work

Projects

Medical Insurance Cost Prediction | Machine Learning Project

- Developed a machine learning model using Random Forest Regression to predict medical insurance costs with 90% accuracy.
- Improved model performance through hyperparameter tuning using Python, Pandas, and Scikit-learn.

Investor Finder | Web Development Project

- Built a platform connecting entrepreneurs with investors, utilizing PHP, SQL for the backend, and HTML, Bootstrap for the frontend.
- Integrated real-time chat functionality and managed databases using PostgreSQL.

Publication

Identifying Threats on Social Media to Spot Offensive Behavior | NLP Project

- Developed and fine-tuned classification models using DistilBERT, Multilingual BERT, XLM-RoBERTa (base and large), and BanglaBERT to detect offensive Bangla text, leveraging a dataset of 44,000 social media comments.
- Achieved 0.83 accuracy with XLM-RoBERTa-base and 0.85 AUC with m-BERT by optimizing hyperparameters such as learning rate, dropout rate, training epochs, and batch size.

Paper Link: `https://ieeexplore.ieee.org/document/10705230`