Rakat Murshed

Research Assistant · Machine Learning · Data Analysis

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Profile

Dynamic and analytical Research Assistant at the Max Planck Institute for Empirical Aesthetics, focusing on machine learning for cognitive and aesthetic data. Experienced in Python, MATLAB, and cloud computing with strong interest in applied AI and data-driven research. Passionate about transforming complex datasets into meaningful scientific insights.

Experience

Jul 2024 - Research Assistant, Max Planck Institute for Empirical Aesthetics, Frankfurt am Main, Germany

- Present O Develop machine learning and deep learning models to analyze aesthetic and emotional responses. O Implement computer-vision and data-processing pipelines for large image/video datasets.
 - Conduct data preprocessing, feature extraction, and model optimization using Python and MATLAB in HPC/Linux environments.
 - O Automate ETL workflows and analysis scripts for reproducible experiments.
 - Collaborate with interdisciplinary teams of psychologists and engineers to integrate ML in perception studies.

Education

2024 - Present M.Eng. in Information Technology, Frankfurt University of Applied Sciences, Frankfurt, Germany Focus: Machine Learning, Cloud Computing, IT Security

2016 - 2020 B.Sc. in Electrical & Electronic Engineering, North Western University, Khulna, Bangladesh CGPA: 3.96/4.00 · Thesis: Multiplex Blind Helper Device and Renewable Energy in Bangladesh

Selected Projects

Blind Helper

Ultrasonic + AI navigation system assisting visually impaired users.

Device

Laptop Price ML regression app using Streamlit to predict laptop prices from specifications.

Predictor

Movie Recom- Personalized movie suggestions using TMDb data, NLP, and Scikit-learn.

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System

SMS Spam Spam detection system using supervised ML models and evaluation metrics.

Classifier

Technical Skills

Programming Python, MATLAB, SQL

Machine Learning Scikit-learn, TensorFlow, Keras, PyTorch

Cloud & IT Azure, Cloud Computing, IT Infrastructure, Security

Operating Linux (Advanced), Windows (Professional)

Systems

Tools Streamlit, Git, Microsoft Excel & PowerPoint

Languages English (B2), Bangla (Native), Deutsch (B1)

Certifications & Awards

2023 Machine Learning with Python – IBM (Coursera)

2023 Data Analysis with Python – IBM (Coursera)

2017 **Techkriti Award**, IIT Kanpur – Recognized for technical innovation.