Puspita Chowdhury

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EDUCATION

Yeshiva University, Katz School of Health and Science — New York, NY
Master of Science in Artificial Intelligence — January 2027

University of Greenwich — London, United Kingdom
Bachelor of Science in Computer Science — June 2023

TECHNICAL SKILLS

- **Programming**: Python, JavaScript, SQL, HTML, CSS
- **Data analysis and Visualization**: Pandas, Matplotlib, Seaborn, Excel (advanced)
- **Machine Learning & AI:** TensorFlow, Keras, PyTorch, Scikit-Learn, XGBoost
- **Model Deployment & APIs**: Flask, FastAPI
- **Other**: Feature engineering, hyperparameter tunning, Model optimization, cross validation, statistical analysis

WORK EXPERINCE

HR Data and Systems Analyst, NLPSS NHS, London, UK — July 2022 - December 2024

• Analyzed and managed workforce data using the Electronic Staff Record (ESR) system, improving data accuracy by 98% and supporting compliance with NHS regulations
• Optimized recruitment and payroll processes, cutting processing time by 30% through data analysis and system improvements.
• Developed and maintained HR dashboards, providing real-time insights into workforce trends, turnover rates, and compliance metrics, leading to a 20% improvement in strategic decision-making.
• Automated repetitive HR tasks by implementing Robotic Process Automation (RPA), cutting manual workload by 50% and accelerating process execution.
• Led system enhancements and data migrations, reducing data discrepancies and streamlining HR operations.

PROJECTS

AI driven Dynamic Data Synchronization and Predictive Recruitment Workflow — January 2024- June 2024
• Implemented AI systems to synchronize candidate data and predict recruitment outcomes, improving hiring efficiency
• Integrated HR data sources and used predictive models to enhance recruitment strategies and automate data processing

Web-Based Business Intelligence Tool — October 2023-April 2023
• Leveraged TF-IDF, NLTK, and machine learning models (SVM, Logistic Regression, Naive Bayes) for analyzing and classifying customer feedback, culminating in the development of a web app deployed via Flask to drive business decisions

Skin Disease Detection — October 2022 - December 2022
• Designed and implemented a deep learning-based skin disease detection model, achieving 92% accuracy and improving diagnostic speed.

Real-Time Human Emotion Recognition — January 2022 - April 2022
• Utilized CNNs and OpenCV to develop a real-time facial recognition system, achieving 95% accuracy in emotion detection and identification

ACTIVITIES

Personal Development Mentor, University of Greenwich, UK — May 2023 - December 2024

- Volunteered to support peers, providing empathetic guidance and assistance during challenging times.
- Fostered a non-judgmental environment, sharing insights and celebrating milestones

Global Guide, One to World, New York, United States — January 2025 – present

- Facilitate educational support and cultural guidance to children, helping them develop language skills, adjust to new environments, and succeed in their educational journey
- Assist in organizing interactive activities and events that promote learning, social integration, and cultural awareness among students