Ramisa Farha

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Objective

Graduate student specializing in advanced computing with expertise in data analytics, data science, and database management. Passionate about leveraging data-driven insights and machine learning to solve complex challenges. Excited to contribute to impactful projects by transforming data into actionable intelligence and optimizing processes for informed decision-making.

Education

Morgan State University, Baltimore, MD *Aug 2024 – Expected Dec 2025*
Master of Science in Advanced Computing, GPA: 4.00
Relevant Coursework: Data Science, Predictive Modeling, Statistical Analysis, Data Analytics, Decision Science

BRAC University, Dhaka, Bangladesh *Jan 2018 – May 2022*
Bachelor of Science in Computer Science and Engineering, GPA: 3.7
Thesis: *Lossless Segmentation of Brain Tumors from MRI Images Using 3D U-Net*

Skills

Data Analytics and Data Science: Predictive Modeling, Data Visualization, Statistical Analysis, Python, R, MATLAB, TensorFlow, Power BI, Tableau
Machine Learning and AI: Model Development, Bias Mitigation, EDA, Trend Analysis, Classification Models
Programming and Database Management: SQL, Relational Databases, Python Automation, Data Cleaning
Tools and Frameworks: NumPy, Pandas, scikit-learn, PyTorch, Hadoop, Spark
Collaboration and Communication: Cross-functional Teamwork, Agile/SCRUM, Stakeholder Engagement, Report Presentation

Work Experience

Morgan State University, Baltimore, MD *Aug 2024 – Present*
Graduate Research Assistant

- Conducted data analysis and validation using Python to support research projects involving clinical and healthcare data.
- Developed machine learning models for predictive analytics, focusing on outcomes and trend identification.
- Generated comprehensive reports and dashboards to visualize findings for cross-functional teams.

Era InfoTech Limited, Dhaka, Bangladesh *Jun 2023 – Jul 2024*
Associate SQA Engineer

- Automated data quality assurance processes using Python, enhancing testing efficiency and reliability.
- Conducted rigorous validation of data pipelines to ensure compliance with industry standards.
- Collaborated with teams to document workflows and optimize data management strategies.

Projects

- **Healthcare Cost Analysis and Optimization**
  Analyzed healthcare costs using SQL and Python to identify cost drivers and optimize strategies while ensuring quality care.
- **Predicting Hospital Readmission Rates (SQL and Python)**
  Developed predictive models to assess hospital readmissions for diabetic patients using univariate analysis and classification.
- **Bias Mitigation in Healthcare AI: Disease Diagnosis**
  Addressed biases in ML models for disease diagnosis, emphasizing fairness across demographics.
- **Automation of Regulatory Document Reviews in Pharmaceutical Development**
  Streamlined DHF reviews with Python-based automation to identify compliance gaps and boost efficiency.
- **Pharmaceutical Work Package Cost Estimation Tool**
  Designed an AI-driven cost estimation tool using machine learning and NLP for pharmaceutical budgeting.
- **Clinical Note Summarization Using GenAI**
  Implemented summarization models to extract diagnoses and treatment plans from clinical notes using BERT.
- **Skin Cancer Lesion Classification**
  Developed a CNN model to classify skin lesions with the HAM10000 dataset, improving early detection accuracy.
- **Breast Cancer Prediction with Wisconsin Dataset**
  Applied ML techniques to predict breast cancer for early detection and prognosis improvement.

Awards

- **1st Runner-up, Amazon Trusted AI Challenge** · AWS HBCU Trusted AI Competition
- **3rd Place Winner, HackAI 2024** · Morgan State University
- **Finalist, BRACU Intra Programming Contest** · BRAC University