

PROTTASHA ISLAM NAHID

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PROFESSIONAL SUMMARY

Aspiring AI Engineer with expertise in machine learning, deep learning, NLP, LLMs, LangChain, Prompted AI, and explainable AI. Proficient in Python, C/C++, Java, SQL, and ML model development, with hands-on experience in healthcare AI projects. Published IEEE researcher with strong analytical skills, data-driven problem-solving abilities, and a proven record of academic excellence.

TECHNICAL SKILL

- **Programming & Tools:** Python, C/C++, Java, Flask, Streamlit, SQL, HTML/CSS, GitHub, Jupyter Notebook, Colab
- **ML & AI:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Statistical Modeling, XAI (Grad-CAM), LLMs, LangChain, Prompted AI, NLP
- **Databases & Analytics:** MySQL, EDA, Feature Engineering, Predictive Modeling
- **Soft Skills:** Analytical Thinking, Problem-Solving, Team Collaboration, Time Management

EDUCATION

Daffodil International University

Bachelor's of Science

July,2022 - Present

- Major in Computer Science & Engineering (CGPA - 3.93/4.00)

Savar Government College

Higher Secondary Certificate

July,2019 - December,2021

- Science Group (GPA - 5.00/5.00)

RESEARCH & EXPERIENCE

NLP & ML Research Lab

Undergraduate Researcher

July,2024 - Present

Conducted research at the NLP & ML Research Lab, focusing on medical imaging and explainable AI. Authored two papers accepted for publication in **IEEE** conferences.

- Evaluating Convolutional Architectures for Accurate Breast Cancer Detection Using ConvNeXt
- Deep Learning & XAI for Eye Disease Classification with Grad-CAM Insights

Computer & Programming Club

Executive Member

March,2025 - Present

- Mentored junior researchers in AI project development and research methodology.
- Organized seminars, workshops, and research contests in AI and healthcare domains.

4IR Research Cell

Book Writer

Jan, 2024 - December 2024

I have written a book chapter on the book of "**Biomedical Engineering in Practice and Research**". It helps increase my writing skill and thinking capability.

AR/VR and Game Development Lab

Documentation Secretary

July 2023 - December 2023

Managed technical documentation for AR/VR projects, streamlining processes that improved team efficiency by **20%**. Maintained design documents, specifications, and reports, ensuring accurate and organized project records.

CIRTIIFICATION

- **Prompt Engineering:** Smarter Use of AI for Everyone (RAIDOT)
- **AI & ML:** Python, OOP, NumPy, SQL, ML Foundations, Data Science Foundations (Great Learning, Maven Analytics, Alison)
- **Business Intelligence:** ISP 2025, CYTES University, Mexico

PROJECTS

- **Medical AI Expert System:** Developed an AI-based expert system to assist healthcare professionals in disease prediction and diagnosis using medical datasets.
- **Medical Chatbot:** Built a chatbot that interacts with users to provide preliminary medical guidance and health-related information.
- **Brain Tumor Detection with Grad CAM:** Implemented a deep learning model to classify brain tumor types and visualize decision areas using Grad-CAM.
- **Medical Image Analyzer:** Created an AI tool to analyze medical images, detect anomalies, and generate interpretive diagnostic reports.
- **Medi-Predict:** Developed a web application that predicts multiple diseases like lung cancer and diabetes using machine learning models for quick, user-friendly health assessments.
- **Job Finder:** Built a system that matches candidates to relevant job opportunities based on skills, experience, and preferences.
- **Predicting Fuel Economy (Maven Analytics) :** Built a Python-based fuel economy prediction model using EDA, feature engineering, and Ridge regression, optimizing performance with cross-validation.
- **Lung Cancer Prediction Using Machine Learning :** Created a lung cancer risk prediction model with multiple classifiers in Python, performing preprocessing, feature encoding, and visualization of results.
- **Phishing URL Detection:** Developed a machine learning model to identify phishing websites by analyzing URL patterns, lexical features, and host-based characteristics.
- **bKash System Simulation** and **Toll Management System:** Developed Python-based systems simulating mobile payments and automated toll collection with transaction logging and balance tracking.

AWARDS

- Dean's List Award
- Best Library User Award (4 times)

LANGUAGES

- Bangla – Native | English – Intermediate | Hindi – Intermediate

HOBBIES & INTERESTS

- Reading AI & Science Fiction
- Traveling and exploring new cultures