

MD. ZUBAYER HOSSAIN PATOWARI

Bosila, Mohammadpur, Dhaka | mdzubayerhossainpatowari@gmail.com | +880 1841 606311
linkedin.com/in/mdzubayerhossainpatowari | github.com/mdzubayerhossain | g.dev/mdzubayerhossainpatowari

AI ENGINEER

Passionate AI Engineer with hands-on experience in developing innovative AI solutions across healthcare, gaming, and automation. Skilled in natural language processing, machine learning, computer vision and generative AI, with a focus on real-world problem-solving.

WORK EXPERIENCE

AI Developer at Rootsuptech	July 2024 - Present
<ul style="list-style-type: none">Spearheaded the development of multilingual generative LLM chatbot models, ensuring inclusivity and accuracy in diverse linguistic contexts.Designed and implemented ChatGPT-like conversational history and context retention for AI interactions.Optimized data storage pipelines for enhanced model retraining and versioning.	
Lead Chatbot Developer IEM Unit, Directorate General of Family Planning (DGFP)	December 2024
<ul style="list-style-type: none">Designed BanglaGPT, a generative AI-powered chatbot, under USAID's Breakthrough ACTION project to assist call center agents in addressing health-related queries.Implemented robust NLP models tailored for Bangla to improve accessibility and effectiveness	
Web Developer at Griherbazar.com	April 2024 - Present
<ul style="list-style-type: none">Enhanced website performance by resolving complex bugs and optimizing backend systems.Conducted in-depth customer behavior analysis to integrate personalized AI-driven recommendations.Customer Behavior Analysis.	

PROJECT

- Sukhi-Poribar AI Chatbot:** Developed an NLP-driven chatbot for family planning services, trained on healthcare data, and optimized for real-time responses.
- Generative Text Summarizer:** Created an AI model for automated summarization of Bangla healthcare documents to enhance accessibility for non-technical users.
- Anihillitor Game:** Designed and developed a Unity-based game with advanced AI mechanics, achieving over 7,000 downloads.
- Bangla sign language interpreter using CNN**
- COVID-19 Vaccination Assistant:** Developed a chatbot to provide multilingual vaccination guidelines for pregnant and breastfeeding women using TensorFlow and Flask.
- Scraping news & articles:** Create a web crawler that goes through the section of a newspaper website and extracts unique articles from different pages of sections.
- Telco Company Poster Detection:** Use YOLOv12 Model for detect real time object.

SKILLS & COMPETENCIES

<ul style="list-style-type: none">Artificial Intelligence (AI)Business Model DevelopmentBusiness NetworkingC++Chatbot DevelopmentChatbot ResponsesChatbotsChatbot TestingClientSuccessCodeceptJSComputer RepairContinuous Improvement CultureDigital AccessibilityDigital TechnologyE-CommerceEditing	<ul style="list-style-type: none">EnglishFull-Stack DevelopmentGenerative AIIT ConsultingJavaScriptJob SatisfactionJupyterLanguage DevelopmentLarge Language Models (LLM)Modeling LanguagesMultilingual CommunicationMusic ProgrammingNatural Language Processing (NLP)News Edit ProNode.jsOffice Automation Software	<ul style="list-style-type: none">Open-Source DevelopmentOperations Process ImprovementPersonal HealthProgramming LanguagesPython (Programming Language)React.jsFastAPIReact NativeSecondary EducationStrategic PartnershipsTech Career SkillsTechnical SkillsetTechnology Solution DeliveryTwitter APIUnityYardi Property Management
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COURSES / CERTIFICATIONS

Introduction to Generative AI Google	10/2024
Introduction to Large Language Models Google	11/2023
Python Essentials 1&2 Cisco	10/2024

EDUCATION

Tejgaon Government High School Science	2023 - 2025
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