SHARIAR KABIR

Research And Development Engineer

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TECH STACK

Languages

Python | Java | JavaScript | Scala | C | C++ | LATEX | SQL | TypeQL | Assembly

Library

Pandas | Datasets | ScikitLearn | OpenCV | Transformers | TensorFlow | PyTorch | SocketIO | SpaCy | OpenGL

Frameworks

Flask | FastAPI | RASA | Spark | PySpark | OpenWhisk | PyQT

Tools

Keycloak | Git | Maven | NginX | Docker | Ansible | AWS | PostgreSQL | TypeDB | Grafana

LEARNING

NLP | NLU | Machine learning | Data analysis | Data mining | Image processing | Web Sockets

ABOUT ME

I am an avid researcher deeply passionate about exploring the convergence of natural language processing and human-computer interaction. With a solid foundation in software development and engineering, I bring a unique blend of practical experience and academic insight to my work. My journey is driven by a curiosity to improve human-machine interaction, fostering innovation at this intersection.

EXPERIENCE

R&D Engineer | Celloscope Limited

📅 September 2020 – Present   📍 Dhaka, Bangladesh

- Building ML-based applications for intelligent broad user-facing solutions.
- Bangla voice-based AI chatbot for banking applications
- OCR free document key information extraction
- Service showcase and usage monitoring systems

NLP and Data Scientist| Part time | MedAI Bangladesh Limited

📅 August 2021 – Present   📍 Dhaka, Bangladesh

- Data analysis and data mining
- Audio data collection portal
- Training and serving of ASR model and other ML models.

Software Engineer | Cokreates Limited

📅 May 2019 – August 2020   📍 Dhaka, Bangladesh

- Deployment automation of the web apps and micro-services in Docker
- Gateway configuration using NGINX reverse proxy
- Document generation scripts from Google Sheets

EDUCATION

MSc | Bangladesh University of Engineering and Technology

📅 April 2019 – Present   📍 Dhaka, Bangladesh

- GPA: 3.50
- Thesis: Dynamic Resource Allocation for Workloads in Serverless Architecture using Collaborative Filtering. Under the supervision of Dr. Muhammad Abdullah Adnan
- Coursework: Bioinformatics Algorithms, Distributed Computing Systems, Data Mining, Data Management in the Cloud, Advanced Database Systems, Advanced Artificial Intelligence.

REFERENCES

Dr. Mamunur Rashid

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Assistant Professor in Bioinformatics, University of Birmingham

Dr. Shyama Shaha

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Associate Director of Data Analytics, Exscientia

Dr. Muhammad Abdullah Adnan

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Professor in CSE, Bangladesh University of Engineering and Technology

BSc | Bangladesh University of Engineering and Technology

📅 February 2015 – April 2019 📍 Dhaka, Bangladesh

- GPA: 3.53
- Thesis: Active Learning on Big Data; A research on how we can apply active learning on big data in a distributed cloud computing system. Under the supervision of Dr. Muhammad Abdullah Adnan
- Coursework: Machine Learning, Pattern Recognition, Computer Graphics, Artificial Intelligence, Digital Image Processing, Data Structures, Database, Operating Systems, Software Development, Computer Architecture, Microprocessors and Microcontrollers, Computer Networks, Concrete Mathematics, Discrete Mathematics, Numerical Methods, Software Engineering and Information System Design, Compiler, Data Communication, Digital Logic Design, Structured Programming Language, Object Oriented Programming Language, Theory of Computation

PUBLICATIONS

SynthNID: Synthetic Data to Improve End-to-end Bangla Document Key Information Extraction

📅 2023 📍 BLP Workshop at EMNLP

RECENT PROJECTS

Voice Banking Chatbot | 🌐

📅 January 2022 – March 2023 📍 Celloscope Ltd.

- Bangla Voice-based AI chatbot using RASA
- Dynamic behaviour based on the input command

ASR System for Patient Symptoms

📅 January 2022 – February 2023 📍 MedAI Bangladesh Ltd.

- Bangla Voice-based ASR system for medical symptoms
- Symptoms spoken by patients are recognized and mapped to the symptoms database
- Finetuned for noisy environment common in metropolitan areas in Bangladesh

Disease Classifier

📅 May 2023 – December 2023 📍 MedAI Bangladesh Ltd.

- A recommendation system for diseases based on patients' symptoms
- The classier is trained on synthetic data generated to reflect real-world demography
- Takes into account patients' risk factors family history and medical history

Audio Data Collection Portal | 🌐

📅 January 2023 – March 2023 📍 MedAI Bangladesh Ltd.

- Audio collection portal using React frontend and Python-Flask Backend
- Data storage in PostgreSQL, object storage in S3
- User authentication using AWS Cognito