Auishik Pyne

⌂ Dhaka, Bangladesh

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💼 Experience

REVE Systems   **Dhaka, Bangladesh**
Software Engineer   Feb 2023–Present
- Engineered predictive models for gender and age detection, improving user experience personalization.
- Customized Bengali TTS models for cross-platform deployment, enhancing accessibility.
- Enhanced ASR accuracy and speaker identification using state-of-the-art models.
- Developed scalable TTS pipelines and biometric authentication systems for secure and efficient processing.

Junior Software Engineer   Sep 2022 - Jan 2023
- Enhanced and optimized audio analysis with pitch detection, volume normalization, and integrated advanced voice detection using WebRTC and sileroVAD.
- Improved audio quality using DeepfilterNet and Meta models, accelerated data processing by 5x using Python Multiprocessing.
- Applied Conv-TasNet and DPRNN for multispeaker voice separation and Configured Azure and Google Cloud for STT/TTS.

Software Engineer Trainee   Apr 2022 - Aug 2022
- Developed a Bengali Text Normalizer and trained a FastSpeech 2 TTS model, enhancing Bengali language processing, and gained expertise in Docker and Flask for API development.
- Conducted audio data analysis and signal processing with an emphasis on data visualization for actionable insights.

SELISE rockin' software   **Dhaka, Bangladesh**
Software Development Engineer Intern   May 2019 - June 2019
- Developed an online quiz platform with HTML, CSS, JavaScript, and Bootstrap frontend, plus PHP, Ajax, and MySQL backend.
- Implemented timed tests, and performance tracking, and mastered GIT, SCRUM, and SDLC, enhancing admin and student functionalities.

📚 Publication

- A. Pyne, S. Anower, *Performance Comparison of Multiple Supervised Machine Learning Algorithms for COVID-19 Mortality Prediction*, 2022 Second International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), Bhilai, India, 2022.

📚 Education

Rajshahi University of Engineering & Technology (RUET)   **Rajshahi, Bangladesh**
Electrical & Computer Engineering   2016–2021
Coursework: Object-Oriented Programming, Data Structures & Algorithms, Database Systems, Computer Networks, Neural Networks Fuzzy Systems
Activities: Cultural Club, Programming Mentor, Blood Donation

✋ Skills

👍 **Expert**: Python, FastAPI, Flask, Scikitlearn, Pytorch, Tensorboard, MongoDB, Linux, VSCode, Data Analysis/Visualization

👌 **Proficient:** HTML, CSS, JavaScript, SQL, Latex, Tensorflow, MLflow, Git/Terminal, Numpy, Pandas, Matplotlib, Seaborn.

👉 **Novice** C, C++, Docker, Power BI, Tableau, MATLAB, Redis, Torchserve, Websocket.

🏆 EXTRA CURRICULAR ACTIVITIES

- Organized and volunteered for "Technocracy 2018" organized by ECE Dept, RUET.
- Participated in 'Gyanjam 2017' Organised by CSE Dept, RUET.
- Participated in project showcasing " Mecceleration 2017" Organised By IUT.
- Served as Vice-President for Barisal Divisional Association of RUET.