Mithun Das

Machine Learning Engineer

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Github https://github.com/Mithunjack

Contact

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Am Dachsberg 109
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Education

Christian-Albrechts-Universität zu Kiel, Germany

Master's in Computer Science
03/**2020 - 02/2024**

Christian-Albrechts-Universität zu Kiel, Germany

Pre-Master's Exam in Computer Science
10/**2019 - 02/2020**

American International University - Bangladesh

Bachelor of Computer Science
01/**2014 - 12/2017**

Version Control

Github/Git

Bitbucket

Gitlab

Work Experience

05/2024 - 11/2024

Lufthansa Airplus International | Frankfurt, Germany | www.airplus.com
Software Engineer

- Working with 4 billion transaction records to create and manage complex dashboards.
- Exploring projects and mastering the application of AI to manage large datasets.

01/2024 - 04/2024

IKMB, UKSH | Kiel, Germany | https://www.ikmb.uni-kiel.de
Research Assistant

- Expertise in R, RShiny, and Python for dynamic gene sequence data visualization.
- Proficiency in creating interactive visualizations with RShiny for effective exploration of genetic data.

06/2020 - 12/2023

Geprog GmbH | Kiel, Germany | https://geprog.com
Software Engineer - Working Student

- Experienced roles spanning developer, team lead, product owner, and feel-good manager.
- Conducted bug fixing, **Unit** testing using **JEST**, and resolved **UI**-related issues with **TailWind**/**WindiCSS**.
- Led front-end teams, showcasing effective leadership and team management
- Spearheaded the development of an **AI chatbot** website using Langchain and **NUXT.js**, offering comprehensive project-based knowledge support.

01/ 2019 - 09/2019

Orbitax Bd Ltd | Dhaka,Bangladesh | https://orbitax.com
Associate UI Developer

- Built Tax Management System (UI Development), customizing predefined UI components of an **Angular** template **(Fuse 8.0)** exactly as the prototype given by the graphic designer.
- Customized the **Kendo Grid** built-in style sheet according to the theme and handle the responsiveness of the project with the help of **CSS 3** Media Queries.

01/2018 - 12/2018

AD CLUB | Dhaka,Bangladesh | https://adclub.com
Junior Front-End Developer

- Developed several single Landing page websites with Animation in it and 100% responsive with the help of old version **Bootstrap 3.7**, **Materialized**, **JavaScript**, **Font Awesome 4.7**
- Collaborated with core team members to implement new features for the project and innovated new Ideas.

Skills

- Python
- Deep Learning
- Machine Learning
- SQL/MySQL
- Numpy/Pandas
- Plotly/Matplotlib
- Tensorflow/Pytorch
- Anaconda
- MongoDB
- REST API
- Vue
- JavaScript/TypeScript
- HTML/HTML5

Language

Bangla (Native)
English (C1)
German (A1)

Hobbies

Football , Basketball , Table Tennis ,Chess
Dancing, Cycling

Awards

1. **Feel Good team member, GEPROG**
2. **Star Learner Award , AD CLUB 2018**
3. **Inter University Dance Champion Group(2nd Best Dancer-2015)**
4. **BCSIR Science Fair (1st Place, 2010)**
5. **Inter School Table Tennis (Champion-2008/2009/2010)**

Projects

01/2023 - 01/2024
Master Thesis l Christian-Albrechts-Universität zu Kiel

Denoising 3D TEM tomography via Advanced Neural Radiance Fields(NeRF)

- This captivating research focuses on enhancing the quality of 3D images obtained through TEM (Transmission Electron Microscopy) tomography.
- **Technology**: Image Processing, PyTorch, NumPy, NerfStudio, Deep Learning, 3D Computer Vision, Neural rendering, Synthetic data, TEM Data, Diffusion methods - Real-ESRGAN
- **Github**: https://github.com/Mithunjack/Thesis-NeRFs.
- **Grade: 1 (Working on Publication)**

04/2023 - 07/ 2021
Project l Geprog.GmbH

Codecaptain - Helps you understand your code

- As a core team member for the Codecaptain implementation, I contributed to model selection, tuning, feature selection, and website UI implementation.
- **Technology**: Langchain, Python, LLM, Nuxt, Vue, Feature-Engineering, JavaScript, Shell
- **Website:** https://codecaptain.ai

01/2021 - 04/2021
Project l Opencampush.sh

Covid-19 detection based on X-Ray images

- Developed a cutting-edge system for COVID-19 detection using X-ray images, advancing healthcare technology in disease diagnosis.
- **Technology**: Machine Learning, Jupyter, Image Processing, Tensorflow, NumPy, Pandas, Deep Learning, CNN
- **Github**: https://github.com/Mithunjack/covid-19-xay-image-classification

01/2021 - 04/2021
Project l Opencampush.sh

Voice Detection of Musicians

- Implemented voice-based musician detection, revolutionizing the field of music analysis and identification.
- **Technology**: Machine Learning, Jupyter, Tensorflow, NumPy, Pandas, Deep Learning
- **Github**: https://github.com/Mithunjack/voice-detection

Certification

- AWS Machine Learning Foundations
- Intermediate Machine learning at Kaggle
- Deep Learning at Opencampus.sh Machine Learning with TensorFlow at Opencampus.sh
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning at Coursera