

Taiabur Rahman

Dijon, France

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EDUCATIONS

MSc, ERASMUS+ Joint MSc in Medical Imaging & Applications (MAIA)	Sep 2022 -Aug 2024
4th semester Master Thesis- Mouse Brain Segmentation using Deep Learning:	Feb 2024 -Jun 2024
National Institute of Health and Medical Research (INSERM)	
Supervisor: Pr Fabrice MERIAUDEAU, Alain Lalande, Stephan Collins	
1st, 2nd and 3rd academic semester:	
University of Burgundy-France, University of Cassino- Italy & University of Girona-Spain	
Summer School on Biomedical Imaging EXCITE, ETH Zurich	Sep 2023
Swiss Federal Institute of Technology Zurich (ETH Zurich) & University of Zurich, Switzerland	
Winter School 2023	Feb 2023
University of Cassino and Southern Lazio-Italy	
MSc, Software Engineering (SE)	Sep 2018 –Aug 2020
Tianjin University, School of Computer Software, China	
BSc, Computer Science & Engineering (CSE)	Oct 2010 -Feb 2014
Bangladesh University (BU), Bangladesh	

PROFESSIONAL TRAINING

Oracle Certified Professional (OCP)	Nov 2017
IBCS-PRIMAX Software (Bangladesh) Ltd., Bangladesh	
Professional Web Design & Development	Oct 2014
BASIS Institute of Technology & Management (BITM), Bangladesh	

EMPLOYMENT HISTORY & EXPERIENCE

Full Stack developer: Vision Eye Hospital, Bangladesh	Dec 2020 -Aug 2022
Higher Education Research Assistant	Sep 2018 –Jan 2020
Tianjin University, School of Computer Software, China	
Web Application Developer	Oct 2019 -July 2020
SystemBind Consulting & IT Services Inc. (Remote Job), Canada	
Software Engineer: Vision Eye Hospital, Bangladesh	Oct 2017 -Aug 2018
Web Application Developer: Make Good Media. (Remote Job), Canada	July 2016 -Jan 2017
Software Engineer: Aprtronix Ltd, Bangladesh	Oct 2017 -Aug 2018
Software Engineer: Coderment Ltd, Bangladesh	Apr 2014 -July 2017

TECHNICAL SKILLS

Programing Languages: Python, MATLAB, C++, PHP
Deep Learning: PyTorch, Tensorflow
Web Application Tools: JavaScript, jQuery, Vue.js/CLI, RESTful API, Git, Json, XML
DevOps: GCP, AWS (EC2, RDS, Load Balancing, Auto Scaling, S3, and CI/CD CodeDeploy), DigitalOcean
Web Server: Apache, Nginx.
Databases: SQL, MySQL, SQLite

LANGUAGE SKILLS

Languages: Bengali- Mother tongue, English – B2, Chinese – A1, Franch- A1, Italiano-A1

RESEARCH PROJECTS

- Deep Learning-Driven Automated Segmentation of High-Resolution 3D Histological Mouse Brain volumes
- Elastix-Based CT Image Registration for COPD Lung Analysis
- 3D Human Brain Tissue Segmentation Using Advanced Deep Learning Techniques
- Deep Learning-Based Skin Lesion Classification: A Computer-Aided Diagnostic
- Automated Skin Lesion Classification: A Comprehensive Analysis of Transfer Learning and Machine Learning Techniques
- Classification Challenge: Alzheimer’s Disease Classification Using MRIs and Gene Expression Data
- Regression Challenge: Using Linear Regression and KNN Model

- Bibliography Review: Comparative study with Automated Kidney Image Segmentation Based on Traditional & Deep Learning approach.
- Traffic (signal light) Simulation and Violation Alert

INDUSTRIAL PROJECTS

Hospital Information Management System [PHP, Laravel, Vue CLI, MySQL, AWS]

Franchise Store Management System [PHP, Codeigniter, MySQL, Bootstrap, jQuery, Ajax]

B2B Ecommerce system [PHP, Laravel, Codeigniter, MySQL, Bootstrap, jQuery, Ajax]

CHALLENGE AND CODING CONTESTS

HACKUPC 2024

May 2024

Automated brain tissue segmentation using OpenAI technologies. The Faculty of Informatics of Barcelona (FIB), Polytechnic University of Catalonia · Barcelona Tech – UPC

Datathon IA4care

Apr 2024

Automated 3D Microscopic Volume Analysis for Hippocampus Segmentation in Mouse Brain. Eseo - Grande School D'ingénieurs, University of Burgundy, Dijon, France

CT Image registration challenge

Jan 2024

3d volume Image registering CT lung scans of COPD patients. University of Girona, Spain

bitsxlaMarató 2023

Dec 2023

AI base solution for Sexual and Reproductive health Hackathon. Faculty of Informatics of Barcelona (FIB), Barcelona Supercomputing Center (BSC), Spain

Lleidahack, HackEPS 2023

Nov 2023

Ultimate 24-Hour AI based Solution Hackathon. Polytechnic School of the University of Lleida, Spain

Classification challenge

May 2023

Alzheimer's disease using MRIs and gene expression data. Italian National Research Council, Italy

Quazi Azher Ali SAARC Programming Contest

Dec 2014

Problem solving contest using programming language. Bangladesh University, Bangladesh

LINKS

<https://github.com/taiaburbd?tab=repositories> | <https://www.linkedin.com/in/taiabur-rahman/>

SCHOLARSHIPS AND AWARDS

Tianjin Government Scholarship

I received the Tianjin Government Scholarship in 2018, 2019, and 2020 while studying at Tianjin University in China. This scholarship was awarded by the local government of Tianjin, China, to support my studies during those respective years.

REFERENCES

Fabrice MERIAUDEAU

ICMUB Laboratory,
CNRS UMR 6302
Professor, University of Burgundy

Alain Lalande

Professor, University of Burgundy
Spectroscopy-NMR Department
Children's Hospital - CHU de Dijon
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