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

17th EXCITE Summer School on Biomedical Imaging, 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: Aptronix Ltd, Bangladesh	*Oct 2017 -Aug 2018*
Software Engineer: Coderment Ltd, Bangladesh	*Apr 2014 -July 2017*

TECHNICAL SKILLS

Programing Languages: Python*, MATAB, C++, PHP*
Machine learning: pyQt5*, SciPy, Scikit-Learn, NumPy*, Pandas*, Matplotlib*, OpenCV*
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*, CloudFront, Route53*, and CI/CD CodeDeploy), DigitalOcean*
Web Server: Apache*, Nginx*.
Databases: SQL, Oracle, MySQL*, SQLite
* Proficient

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 programing 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   **Alain Lalande**
ICMUB Laboratory,   Professor, University of Burgundy
CNRS UMR 6302   Spectroscopy-NMR Department
Professor, University of Burgundy   Children's Hospital - CHU de Dijon
Fabrice.Meriaudeau@u-bourgogne.fr   Alain.Lalande@u-bourgogne.fr