



Arijit De

TCS-RSP Research Scholar

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<https://github.com/arijitde92>

<https://arijitde92.github.io/>

Kolkata, India

EDUCATION

- **Master of Computer Science & Engineering,** Aug, 2016 - Jul, 2018
GPA - 8.83
Jadavpur University, Kolkata
- **Bachelor of Computer Science & Engineering,** Aug 2010 - Jul 2014
GPA - 8.81
Techno India, Kolkata

SKILLS

- Programming
 - Python
 - C/C++
- Machine Learning
 - PyTorch
 - TensorFlow
 - Scikit-Learn
 - MONAI
- Medical Image Processing
 - SimpleITK
 - FreeSurfer (FSL)
- Latex
- Version Control
 - Git
 - GitHub

Summary

An aspiring research scientist looking to explore and contribute in solving real world computer vision problems. An ardent researcher with 4 years of experience in machine learning, data science and artificial intelligence. Also, a passionate techie, keen on application software development with experience in developing tools in python, PyQt and Qt C++. I Love to collaborate with fellow researchers. Having a good track record of planning, designing and executing a task with excellent sense of time management.

Professional Experience

Mercedes Benz Research & Development India

Data Quality Analyst

Aug, 2018 to Sep, 2019

- Developed tools (in Qt C++) for manual quality control of annotated images needed for Vulnerable Road User (VRU) detection.
- Created python scripts for automatic quality checks of labelled/annotated data which increased annotation throughput by 20%.
- Involved in data cleaning and dataset preprocessing for gesture recognition of VRU.

Tata Consultancy Services, India

SAP CRM Consultant

Aug, 2014 to Apr, 2015

- Provided support for client databases using SAP-CRM.
- Responsibilities included generating daily reports, executing Change Requests on the database as needed from clients.

Publications

1. A. De, M. Tiwari and A. S. Chowdhury, "**3D Hippocampus Segmentation Using a Hog Based Loss Function with Majority Pooling**," In *ICIP 2023*. [Link to paper](#)
2. A. De, R. Mhatre, M. Tiwari, A. S. Chowdhury, "**Brain Tumor Classification from Radiology and Histopathology using Deep Features and Graph Convolutional Network**". In *ICPR 2022*. [Link to paper](#)
3. A. De, M. Tiwari, E. Grisan and A. S. Chowdhury, "**A Deep Graph Cut Model For 3D Brain Tumor Segmentation**," In *EMBC, 2022*. [Link to paper](#)



CERTIFICATIONS

- **Deep Learning, a 5-course specialization**, Deeplearning.ai
Verify at - coursera.org/verify/specialization/N3DEF824QJXU
- **TensorFlow in Practice Specialization**, Deeplearning.ai
Verify at - coursera.org/verify/specialization/58SUXN5LBX44
- **MCPS: Microsoft Certified Professional**, Microsoft
Certification no.: E319-6162



AWARDS

- Valuable contribution as reviewer in 7th International Conference on Computer Vision & Image Processing (CVIP)
2022
- **Guinness World Record** participation certificate and breaking the record for most users taking an online computer programming lesson in 24 Hrs.
2021
<https://www.guvi.in/ai-for-india-detail>
- Awarded **TCS-RSP Fellowship** by Tata Consultancy Services (TCS)
2020
- Awarded **National Doctoral Fellowship** (NDF) by AICTE
2019
- **Best Paper Award** (3rd Position) in Computational Intelligence, Communications and Business Analytics conference (CICBA)
2018

- De A, Chowdhury AS. **DTI based Alzheimer's disease classification with rank modulated fusion of CNNs and random forest**. In Expert Systems with Applications (ESWA) 2021. [Link to paper](#)
- De, A., Das, N., Sarkar, R., Saha, P.K., Basu, S. "**Design of Synthetic 3-D Pulmonary Phantoms Using 2-D Graphical User Interface**". In CICBA 2018. [Link to paper](#)



Projects

Spiritual Chatbot

<https://github.com/arjitde92/SpiritualChatBot>

- A chatbot developed using OpenAI's GPT3.5 model.
- The AI chatbot has profound knowledge on the Hindu Vedic text - "Bhagawad Gita" and acts as an avatar of Lord Vishnu who can offer spiritual guidance.
- The UI is developed using streamlit.

AD Classification App

https://github.com/arjitde92/AD_Classification_App

- A web application built with Python, Flask and MySQL where users can submit samples of their 3D MRI scan and get the diagnosis results.

Docuplus Website

<http://www.docuplus.ca>

- A Responsive website for Canadian client Docuplus
- Built in PHP with MySQL. Hosted in GoDaddy Server.



Teaching Experience

Edustation India, (Remote)

Machine Learning Mentor

Dec, 2022 to May, 2023

- Teaching theoretical & practical concepts of Machine Learning (ML) algorithms & data pre-processing techniques to build efficient ML applications.

Upskillz, India (Remote)

Machine Learning Mentor

May, 2022 to Nov, 2022

- Taught theoretical concepts on machine learning and data science along with hands-on practical sessions.
- Guided two ML projects to make students experience the end-to-end development and designing of ML models.