ADITHYA MADHUSOODANAN

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EDUCATION

National Institute of Technology Karnataka, Surathkal July 2019 - Present Minor in Information Technology Overall GPA: 8/10

National Institute of Technology Karnataka, Surathkal

B. Tech in Electrical and Electronics Engineering

Silver Hills Public School, Kozhikode April 2018 Class 12, Central Board of Secondary Education Overall 95.4%

Physics, Chemistry, Maths, Computer Science

Silver Hills Public School, Kozhikode

April 2016 GPA:10/10 Class 10, Central Board of Secondary Education

SKILLS

Computer Languages C/C++, MATLAB, Java, Python Software & Tools Tensorflow, Keras, ReMagX, SharePoint

Instruments Vibrating Sample Magnetometry, X-Ray Reflectometry,

X-Ray Diffraction, Pulsed Laser Deposition

Languages English, Hindi and Malayalam

ACHIEVEMENTS

- Among top 0.8% in JEE Mains 2018 (amongst 1,200,000 candidates)
- Among Top 0.3% in Kerala State Engineering Entrance Exam (KEAM) (amongst 90,000 candidates)
- Secured Zonal Rank 35 and International Rank 1671 for the 10th SOF International Mathematics Olympiad
- Identified as a 'Bright Spot' in the state of Kerala by Vikram Sarabhai Science Initiative
- Secured first rank for Mathrubhumi Silver Bullet Exam

EXPERIENCE

University of Surrey, United Kingdom

Apr 2020 - Present

July 2018 - Present Overall GPA: 7.98/10

Remote Summer Research Student, Department of Computer Science

- · Analyzing and compiling a dataset consisting of images and video sequences containing streams
- · Implementing an object detection algorithm on the dataset to detect streams of water in a video sequence

Project Guide: Prof. Frank Guerin

Muon, India - Website

Mar 2020 - Present

Founder and Backend Developer

- · Creating and hosting websites online
- · Using PHP and MySQL to develop backend for websites

SQE Assurance, Derby, United Kingdom

Aug 2019 - Jun 2020

Systems Developer

- · Handling content types, customizing forms via JSON and VS codes
- · Developing apps for SharePoint using PowerApps
- · Customizing SharePoint workflows
- · Creating Customized SharePoint pages containing dashboard reports using PowerBi

Indian Institute of Science, Bangalore, India

May 2019 - Jul 2019

Summer Student, Spintronics and Thin Film Magnetism Labs

- · Studied Quadratic Magneto-optical Kerr effect (QMOKE) properties of Fe_3O_4 thin films.
- · Employed ReMagX Software for the X-ray reflectivity data fitting of thin films.
- · Measured Magneto-optical Kerr effect (MOKE) properties of Mica thin films under various compressions.

Project Guide: Prof. PS Anil Kumar

PROJECTS, SCHOLARSHIPS & PAPERS

Intel Edge AI Scholarship Foundation Course - Certificate

Dec 2019 - Mar 2020

Udacity

- · Learning basics of AI at the Edge
- · Leveraging pre-trained models available with the Intel Distribution of OpenVINO Toolkit
- · Converting and optimizing other models with the Model Optimizer, and performing inference with the Inference Engine

Haemorrhage Segmentation using Deep Learning - Github Jan 2020 - Apr 2020

· Developed a Convolutional Neural Network that can read Computed Tomography images and then detect as well segment intracranial hemorrhage

Optical Number Recognition - Github

Jul 2018 - Mar 2019

IEEE National Institute of Technology, Surathkal

· Developed an Optical Number Recognition product that can read handwritten numbers and store them as text using handheld devices like a mobile camera.

Working Paper

· Using machine learning to manage personalised and adaptive notification on mobile devices to improve user experience

Collaborator: Prof. M Anand Kumar

EXTRACURRICULAR ACTIVITIES

Executive member, Flying and Robotics Club NITK - deploying machine learning techniques to create autonomous drones

Member, Marketing and Publicity Team, Incident 2019 (Annual cultural festival of National Institute of Technology Karnataka)

Volunteered for the Open House Programme of Centre for Water Resources Development and Management (Jaladarshan 2017) held at Centre for Water Resources Development and Management, Kozhikode, India - had a hands on experience on the methodologies and techniques that can be used to save water and other natural resources.