



Savini Abayaratne

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Savini Abayaratne

OBJECTIVE

I am a self-motivated individual with a yearning to expand my knowledge through learning. Being a research enthusiast, I am eager to be a part of the academia where research and development work is constantly in progress. I am also a team player who acts with a sense of responsibility under any circumstance. Currently I am searching for a career opportunity in which I can contribute for the advancement of the organization while enhancing my knowledge in the field of Computer Science.

ACADEMIC QUALIFICATIONS

General Sir John Kotelawala Defense University, Ratmalana, Sri Lanka (2016-2019)

B.Sc. (Hons) in Computer Science

GPA: 3.82

Visakha Vidyalaya Colombo 05 (2002-2015)

G.C.E. (Advanced Level) Examination – August 2015

Physics – C

Chemistry – C

Combined Mathematics - C

General English – A

General Information Technology – A

G. C. E. Ordinary Level Examination - Dec 2012

Passed with 9 A's (including ICT, English Literature, Business & Accounting Studies)

PROJECTS AND RESEARCH

Identification of Snake Types Found in Sri Lanka Using Convolutional Neural Networks: (Python, TensorFlow, Keras, Android Studio IDE)

A CNN based model deployed as an Android Mobile Application for classifying the type of the snake when a digital image is available.

A Review on Convolutional Neural Networks for Recognizing Snakes in Sri Lanka

A review based on related work conducted in object and animal classification using CNN and in snake type recognition.

Students' Attendance and Results Management System using OCR Image Processing: (php, HTML, CSS, JavaScript, OCR)

The attendance of a student at a lecture is automatically updated by scanning a signing sheet and using Optical Character Recognition (OCR).

IOT Equipped Smart Cane: (Arduino, MIT App Inventor)

An obstacle detection smart cane which incorporates a smart phone to detect traffic light signals and alert the user with audio voice messages of the state of traffic light signals.

INDUSTRIAL EXPERIENCE

99X Technology, 349, Lee Hedges Towers, Colombo 03

Internship (July 2019 – December 2019)

Worked as a full stack software developer for team Boligmappa

Backend Development of Web API using Microservice Architecture: ASP.NET Core C#, MS SQL

Frontend Development of basic components: React

Cloud Computing Service: AWS

Implementation of the Tracking of User Behavior in the Application: Google Tag Manager, Google Analytics and Hotjar (unsupervised direct interaction with the product owner)

PUBLICATIONS

SB Abayaratne, Kalani Ilmini and TGI Fernando, "Identification of Snake Species in Sri Lanka Using Convolutional Neural Networks", International Conference in Artificial Intelligence (SLAAI), 2019.

SB Abayaratne, WMKS Ilmini and TGI Fernando, "Automated Methods to Identify Snake Species in Sri Lanka, A Review ", 12th International Research Conference KDU, 2019.

AWARDS AND ACHIEVEMENTS

Presented Final Year Project "Identification of Snake Species in Sri Lanka Using Convolutional Neural Networks" at the KDU Final Year Project Exhibition as a selected project of the Faculty of Computing 13th December 2019.

Presented poster, "Identification of Snake Species in Sri Lanka Using Convolutional Neural Networks" representing KDU at the Shilpa Sena Exposition July 2019.

Team Member of Team Data Raptors (TOP 15) – hackStat 2018 Hackathon, October 2018.

Got selected to the Winners' Circle of the National ICT Awards (NBQSA) 2020 - Mobile App for Automatic Identification of Snake Types Found in Sri Lanka Using Convolutional Neural Networks

INTERESTS

Machine Learning and Data Science

Data Structures and Algorithms

Databases and Big Data Analytics

Graph Theory and Discrete Mathematics

EXTRA CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- IEEE Graduate Student Member (Member ID - 95614446)
- Secretary for IEEE Innovation Nation Sri Lanka 2020 Organizing Committee - Ongoing
- Editorial & Content Writing Team Lead for IEEE Young Professionals Sri Lanka, LETs talk 2020 Organizing Committee - Ongoing
- Member, Secretariat Team for IEEE Techno Meetup 2019/2020 Organizing Committee
- Volunteer for IEEE Sri Lanka Section
- Compere at KDU International Research Conference (2017 and 2018)
- Girl Guide of Visakha Vidyalaya (11th Colombo Company C)
- Former Committee Member of the Senior Science Society of Visakha Vidyalaya (2013 - 2014)
- Won the 3rd place at the Wesley College Inter School Quiz Competition, Science Day 2014 representing the Visakha Vidyalaya team

- Former Committee Member of the Junior Commerce Society of Visakha Vidyalaya (2011 - 2012)
- School Athlete (100 m and High Jump) (2004 - 2009)
- Represented Visakha Vidyalaya at John Taret Athletic Competitions 2007 in Individual (100 m) and Team Event (4x100 m)
- Represented Visakha Vidyalaya at Circuit Meets 2006 & 2007 in Individual (High Jump & 100 m) and Team Event (4x100 m)
- Institute of Music, Speech & Speaking Skills (IMSSS) Pianoforte Performer (Up to Advanced Junior) (2006 - 2010)
- Prize Winner of IMSSS Pianoforte (2008 & 2009) and IMSSS Theory of Music (2006, 2008 & 2009)

TECHNICAL SKILLS

Languages: Java, Python, C++, HTML, CSS, JavaScript, Prolog, MATLAB, C#

Databases: MS SQL, MySQL

IDEs: Android Studio, Visual Studio, NetBeans

Frameworks: ASP.NET Core, Entity Framework Core

Software Libraries: TensorFlow, Keras

Cloud Computing Services: AWS

Version Control Systems: Git

PERSONAL SKILLS

Strong analytical and problem-solving skills

Leadership and organizational skills

Native Proficiency in Sinhala language & Full Professional Proficiency in English language

Effective communication (written & oral) skills in both Sinhala and English

Punctuality and time management skills

Empathetic

PERSONAL DETAILS

Full Name: Savini Bumindra Abayaratne

Age: 24+

Date of Birth: 01/07/1996

Gender: Female

Nationality: Sri Lankan

NIC: 966833246v

NON RELATED REFEREES

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