Sathish Ekanayaka

Electrical and Information Engineering Undergraduate

Profile and Career Objective

A Talented Final Year Engineering student with the ability to think through a problem coupled with the confidence to make ideas heard. I am currently looking for a job opportunity that will allow me to work alongside an expert team of talented individuals.

Technologies

Machine Learning | Deep Learning | Data Science | Natural Language Processing | Computer Vision

Programming Languages and Tools

Python | R | Pandas | PySpark | NumPy | SciPy | Tensorflow | Keras | Pytorch | Scikit-Learn | Tableau

Soft Skills and Interpersonal Competencies

Leadership | Project Management | Presentations | Flexibility and Adaptability | Teamwork | Public Speaking

Industrial Experience

- **NYSCHEY (PVT) Ltd.**
  Intern AI Engineer | June/2021 - Present
  Applying Machine Learning, AI on Bioinformatical data and Medical Images.

- **Fiverr**
  Freelance Machine Learnning Engineer | January/2021 - Present
  I Take Machine Learning, Deep Learning, and Data Science projects and researches as a freelancer. Gained experience in using Machine learning and Deep Learning to solve real-world problems, and working with foreign and local clients with different needs and different backgrounds.
  Visit my profile on -: https://www.fiverr.com/share/r94RV0

- **Sierra Telecommunications (PVT) Ltd.**
  Trainee Telecommunication Engineer | January/2019 - April/2019
  Gained experience in
  1. Optical fiber underlaying and installation.
  2. Operation and maintenance of telecommunication towers .

Education

- **B.Sc(Hons) Degree in Electrical and Information Engineering**
  Faculty of Engineering, University of Ruhuna | 2016 - 2021

- **GCE Advanced Level**
  Dharmaraja College, Kandy | 2007 - 2015

Projects

WORKLOAD MANAGEMENT SYSTEM FOR CRICKET FAST BOWLERS

Faculty of Engineering, University of Ruhuna - Final year Project | 2021

Athlete workload data during practice sessions gathered using wearable IMU sensors and analysis was done using deep learning. Then extracted data and recommendations for future practice sessions are given in a user-friendly manner using a web application. During this project, I got to experience how to develop and deploy a complete end-to-end data science project and to use the tools, Django web framework, and PostgreSQL database system.

HUMAN ACTIVITY RECOGNITION METHOD USING WEARABLE SENSOR DATA AND DEEP LEARNING

https://github.com/sathish-ekanayaka/Human-Activity-Recognition-Project | 2021

Three deep learning models. a CNN, an LSTM, and a CNN-LSTM were developed to do human activity recognition tasks using wearable IMU sensor data. After three models were developed, the optimum performing model was selected based on compromising between accuracy measures and processing time.

A MODEL FOR PREDICT THE FIRST INNING SCORE OF AN ODI CRICKET MATCH

https://github.com/sathish-ekanayaka/Predicting-the-first-innings-score-of-an-odi-cricket-match. | 2020

A machine learning model using Random Forrest Regressor developed by feeding ball by ball data of past cricket matches to predict the first innings' projected score within a 15 run difference range when current data of the game is given as the input.

Contact

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Referees

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AN IMAGE RECOMMENDATION SYSTEM FOR A TOURISM WEBSITE

For a Foreign Client | 2021

A recommendation system for a Tourism Web Site was developed using Random Forest Classifier algorithm. A large dataset about the tourists who visited Saudi Arabia is used to train the model. An image is selected to display based on Ethnicity, Age, Level of Education, and Marital Status of the user.

ROMANIZED SINHALA TO SINHALA TEXT CONVERTER

For a Local Client | 2021

An Intelligent system using a Bidirectional LSTM algorithm was developed to convert Romanized Sinhala(Singlish) text to a text with Sinhala letters. This enables the user to type Sinhala texts conveniently and robustly.

SAFETY SYSTEM FOR MOTOR BIKE RIDERS

Faculty of Engineering ,University of Ruhuna | 2019

A system designed and implemented using an Atmega 328p microcontroller and C to check whether the person is appropriate for a ride based on his heart rate and alcohol concentration of breath.
If the person is not in an appropriate condition an alarm will be switched on.

Publications

- **The scientific paper, "Work Load Management System for Cricketers" based on our final year undergraduate project was selected to present at the Annual International Conference of the IEEE Engineering in Medicine and Biology Society which will be held on 31st October 2021.**

Extra Curricular Activities

- **Represented University Rugby Team in SLUG (Sri Lanka University Games) 2019**
- **Captained Faculty Rugby Team in 2019**
- **Represented Faculty Hockey Team.**
- **Worked as a volunteer math teacher for project "Mehewara"**
- **Organizing committee member at Annual Research Symposium 2018 of Faculty of Engineering, University of Ruhuna**

Memberships

- **Student member of Institution of Engineers Sri Lanka (IESL)**
- **Student member of Institute of Electrical & Electronics Engineers (IEEE)**

Conclusion

I hereby certify that the particulars mentioned above are accurate to the best of my knowledge.
Ekanayaka E.M.S.B.
05/18/2021