Janith Wanniarachchi

Undergraduate (BSc. University of Sri Jayewardenepura)
Currently exploring applications of probabilistic programming approaches

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Education

2017 – present	**BSc.** Statistics(Hons.)	University of Sri Jayewardenepura
2019	**Course** Natural Language Processing	National Research University Higher School of Economics in Russia
2013	**Diploma** Web Engineering	ESOFT Metro Campus
2003 – 2016	Grade 1 to Advanced Level Education	Royal College, Colombo

Work Experience

Sep 2017 - Nov 2017 — Graphic Designer — OctupusBI formerly Ayra Analytics

Worked with a digital marketing team on creating marketing material for an data analytics company based in Australia providing analytical insights for schools in Australia.

Nov 2017 - Apr 2018 — Freelance Graphic Designer — Morpheus Digital Services

Designed the logo and branding material for a Digital Services company and handled monthly social media content creation for two clients.

Jan 2019 - Jun 2019 — Contractor Consultant — Intellimorph

Provided Consultation and developed systems to detect anomalies in robotic process automation and a computer vision solution to automate a robotic hand to read credit card scanners.

Feb 2021 - May 2021 — Consultant Data Analyst — CreativeHub

Constructed a framework for testing hypothesis on the attributes of Facebook Ad campaigns and provided dashboards visualizing the success of ad campaigns

Nov 2020 - Oct 2021 — Trainee Data Analyst — Trabeya

- Developed the deduplication component of automated data cleaning solution.
- Developed a session based recommendation component for a recommendation platform
- Worked on a backend server providing real time recommendations through a microservices architecture

Nov 2021 - Present — Contractor Consultant — labml.ai

Providing analytics on online user segments and feature usage

Achievements

- 1st Runner up, hackStat 2.0 2019 organised by Stat Circle, University of Colombo.
  - After a preliminary Kaggle competition, the final competition was centered around predicting customer churn in the Insurance field
- 1st Runner up, Datathon of SLIIT Codefest 2019.
  - After passing a written test, 24GB of data containing a set of time series of product stock availability was given to predict the future stock availability

- Finalist at Data Storm 2.0 2020 organised by Rotaract Club of University of Moratuwa and Faculty of Science, University of Colombo powered by Octave.

  - After a preliminary Kaggle competition, the task was given to predict whether a customer would add another item to the current insurance policy and when that would happen.

- Finalist at Dialog Datathon organised by Dialog Axiata and Datathon organised by SLIIT.

  - After a written test, data from cell towers of Dialog Axiata were given to visualize and wrangle to obtain traffic predictions and the states that users would travel to.

- Honourable Mention Award at the Asian Pacific Informatics Olympiad for the year 2017.

  - An international competitive programming competition where the participants were given a time limit to solve algorithmic problems

- Global Rank 487 and Country rank 35 in IEEEXtreme 12.0 in the year 2018

  - A group event where the algorithmic problems were to be solved within 24 hours against IEEE members all around the world.

- Finalist at CloudHack'17 Cloud Computing Hackathon organised by the IEEE Student Branch of University of Colombo School of Computing

  - Presented a solution to develop a chat bot that can assist users who are suffering from depression

- E.W. Perera Memorial Scholar for the year 2013

  - Award given for the student with the highest marks for ICT prior to the G.C.E. Ordinary Level Education Examination.

Projects & Experience

Statistical Projects

- Provided a report on the effectiveness of a marketing campaign of iKON Impressions

  - Worked with a team of data analysts to gather data from Google Analytics and Supermetrics and presented a final presentation on the discovered analytics.

- Contributor of three R packages (DSJobtracker, tsdataleaks, nic).

- Author of scatteR package

- Completion of Hacktoberfest challenge in 2019 and 2020.

- Provided an analysis of the effect of Coronavirus in Australia

- Conducted analysis and visualisations of TidyTuesday datasets for two weeks (Marble Racing,Volleyball Matches).

- Collaborated on a research project on Time Series Modelling of Soil Moisture in New South Wales, Australia

- Collaborated on the research project of Forecasting Bitcoin Price Behaviour Subject to Dynamic Volatility Condition.

- Collaborated on creating a Shiny Dashboard for a research project on a Taekwondo Ranking System.

- Provided assistance in completion of Assignment on Big Data Analysis with Pig and Hive as a paid contractor.

DEEP LEARNING

- Implemented a Telegram bot using Chatterbot and Google Cloud Compute Engine for the Natural Language Processing Course.

- Successfully implemented U-Net fully convolutional neural network

  – With the goal of identifying and segmenting foot prints from images of foot soles to identify patients with flat feet syndrome a successful implementation of an end to end model was made with hand labelled masks

- Implemented a Digit Recogniser

  – A real world digit recogniser to be used on a robotic arm was built using traditional CV techniques and Google Cloud Vision.

- Recognised Eye blinking from EEG data

  – Using data collected from a Emotiv Epoc+ Headset of 14 channels predicted the eye blinking of the wearer.

- Participated in 2 Kaggle competitions

COURSES

- Successfully completed the Baseline : Data, ML, AI Qwiklab in Google Cloud Platform.

- Earned 10 Badges and 2 Trophies in Microsoft Azure Machine Learning Docs.

- Completed 4 courses in DataCamp (Bayesian Modelling with RJAGS, Introduction to Spark with R, Scalable Data Processing in R, Intermediate Functional Programming with purrr)

- Completed the beginners course in Google Analytics and implemented Google Analytics in the personal website.

LEADERSHIP AND VOLUNTEERING

2020

Presented a session at RLadies Colombo on Data Wrangling in R

Provided a practical example of data wrangling through the tidyverse ecosystem in a real world setting using Spotify data from TidyTuesday datasets.

2020/2021

Worked as the President of the Statistics Society of University of Sri Jayewardenepura

- Conducted three sessions on the topics of Fundamentals of Data Visualization, Introduction to Data Visualization with Tableau and Data Wrangling for visualization (Pearl Viz Introductory webinar).

- Organized the following projects

  – Ask the Experts: A panel discussion where Alumni of University of Sri Jayewardenepura answered questions from the students on entering the industry through statistics. Alumni representing the fields of Data science, Data Analyst and Finance were brought together to answer questions from over 200 students

  – Basics of Git session

  – Pearl Viz '21 Data Visualization Competition: Inspired by Iron Viz from Tableau, Pearl Viz was focused on bringing out the data visualization skills of the students of Faculty of Applied Sciences through tools such as Tableau, Microsoft Power BI, Google Data Studio and Streamlit

  – Outliers program: A program where students were given the chance to write articles on statistical analysis using data according to the topic of the article. The articles were then reviewed by Teaching Assistants and Lecturers before being published online.

  – Excel and Calculator workshop : An introductory workshop on the basics of using Excel and the Scientific calculator conducted for all departments of the Faculty of Applied Sciences.

  – Higher Studies webinar: A webinar featuring two alumni who were studying for their Masters in Canada where they answered questions from the students about the things that were needed to prepare the journey into higher studies

  – Estadistica '21: The annual statistics day: A week long celebration of the products of the Statistics Department, featuring a daily quiz where the questiosn were based on research papers, a researcher of the day feature where alumni with significant research impact were showcased and finally two thesis presentations of the recently graduated batch.

2019   Organised TensorFlow All Around 2019 from the TensorFlow User Group Sri Lanka

Conducted a coding session on sentiment analysis of News Headlines in USA using Universal Sentence Encode model in Tensorflow Hub and used a simple neural network to model sentiment using Tensorflow.js as the backend.

2019   Volunteer for Google Developer Group by doing two sessions on LSTMs and Gradient Descent in the ML Bootcamp 2019

Provided a small intro to LSTM with codes and Gradient Descent

2019/2020   Worked as the Vice President of Society of Computer Science University of Sri Jayewardenepura

- Conducted a live stream on Youtube teaching competitive programming skills through the Hackerrank platform
- Organized a competitive programming competition named Odyssey where student's competed by solving algorithm questions.

2018   Head of Competitions Committee in Aurora Conference on Computer Science

Developed a quiz system using Angular and Firebase Realtime Database and handled the tasks of hosting a two day quiz competition.

2017   Volunteer for ICTA by teaching Scratch, Arduino and Microbit programming for the students of Sapugaskanda Vishaka Balika Vidyalaya

With the participation of over 20 students, a series of lessons were taught covering the fundamentals of developing algorithms and coding using Scratch. Afterwards the best performing students were taught Arduino programming where they built the line following robot using PID algorithm.

2017   Head of Public Relations and Branding at National Youth Model United Nations

Designed marketing material and printing material for the National Youth Model United Nations

2017   Member of the Developer group of the Battle of the Blues Live Score Mobile App of 2017

Worked on the Android app development of the Battle of the Blues Live Score Mobile App

2015/2016   Secretary of Royal College Computer Society

- Beyond the UI Inter school ICT Competition
- Battle of the Blues Live Score Mobile App
- Conducted programming workshop series for Java and C++ for three months
- Provided Technical Services for HeartBeat'15 by designing promotion material and streaming video output to LED wall

2018/2019   English Compère for Sisi Arundathee (An annual concert organised by the Student Union of the Faculty of Applied Sciences) and various other events.