Sachin Shrestha

U8 74 Campsie Street, Campsie NSW 2194

Mobile: 0450 001 794

Email: sachin.shrestha33@gmail.com

Website: sachinshrestha.github.io

Citizenship: Australian Citizen

EDUCATIONAL QUALIFICATIONS

2015 Certificate for Data Science and Machine Learning Essentials

edX Verified Certificate

https://courses.edx.org/certificates/user/2982392/course/course-v1:Microsoft+DAT203x+1T2016

2014 Doctor of Philosophy in Engineering

The University of Western Australia, Perth

Achievements: Awarded Bankwest Convocation Award, 2014.

Awarded UWA Postgraduate Travel Award, 2012.

Authored journal articles, wrote and presented papers in domestic and

international conferences.

2014 Certificate in The Analytics Edge

edX Honour Code Certificate from Massachusetts Institute of Technology

https://s3.amazonaws.com/verify.edx.org/downloads/0935f131aaf84d31835667b74a965db0/Certificate.pdf

Achievements: Secured 95% marks.

Ranked 5th out of 1685 players in Kaggle competition for developing a

machine learning model for predicting happiness. Raw data from 'Show of

Hands', a polling app for use on mobile devices and the web, was used to

see what aspects and characteristics of people's lives predict happiness. In this problem, data from thousands of users and one hundred different questions was used to see which responses predict happiness.

Projects undertaken in edX Courses

Please visit my website <u>sachinshrestha.github.io</u> to see some of my projects

- Undertook data analysis projects that involved the analysis of unstructured, semistructured and structured data, cleaning and preparation of data, developing statistical and machine learning models, training, testing and validating the statistical/machine learning models.
- Performed calculations for statistical data analysis using SAS and SAS/SQL –
 performed descriptive evaluation of data, correlations, inferential analyses,
 comparative tests, hypothesis tests, parametric and non-parametric analyses and
 created reports.
- Developed supervised machine learning models, namely, decision tree and artificial neural network models in R to classify cancer patients into high-risk, medium-risk and low-risk patients.
- Used an individual's information to predict whether or not the person earns more
 than \$50,000 per year. The source of the data was Census Data for Earnings, 2010.
 For the purpose of solving this problem, I built a logistic regression model, a CART
 model, a CART model with cross-validation, and a random forest model and
 compared their accuracies to choose the best model.
- Developed a linear regression model and a regression tree model for predicting lifeexpectancy using publicly available census data and analysed predictions.
- Built logistic regression models for predicting loan repayment, and for the prediction of business failure.
- Carried out clustering analysis on stock returns, market segmentation for airlines, and for predicting medical costs.

- Carried out text analytics on twitter data relevant to Apple iPhone 5C in order to assess consumer sentiment associated with the product.
- Developed linear optimization models for revenue management, investment management under taxation and, outsourcing decision on textile production.
- Developed integer optimization models for selecting profitable hotel sites, assigning sales regions for pharmaceutical company and, optimizing sales channels for organic farm products.

EMPLOYMENT

PhD Student and Tutor

Mar 2010 - March 2014

The University of Western Australia, Perth, WA

- Conducted research including statistical analysis of data
- Authored and published research articles in international journals; presented
 research papers in international conferences
- Mentored and supervised Honours students
- Taught undergraduate units

INFORMATION TECHNOLOGY SKILLS

- Programming in R, SAS, MATLAB
- Excellent querying skills using SQL
- Microsoft Azure
- Advanced data analysis skills in Excel
- Microsoft Word, PowerPoint, Access

REFERENCES

Mr Nirmal Kunwar

Assistant Director ICT Projects

Administrative Appeals Tribunal

Sydney

Phone: 02 9276 5385

Mr Sunil Karmacharya

BI Analyst

MSD Australia

Sydney

Phone: 0431 586 399