

**SURENDRAN SELVARAJU**  
surendranmmu@yahoo.com

Apartment Desa Jati, Nilai • +6010-3693430

## EDUCATION

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**Multimedia University**

**M.Sc., Information Technology**

**2015 – 2019**

**Dissertation: Feature and Opinion Extraction on Malay**

**Online Text**

**B.Sc., Bioinformatics**

**2011 – 2014**

**Certificate: Certified Data Science Specialist (iTrain)**

**2020**

**Certificate: Coursera Course Certificate**

**2018**

**Machine Learning: Classification**

**License MJXDTBZMQXCQ**

**Introduction to Data Science in Python**

**2018**

**License XRC53XN2ZYQH**

**Applied Text Mining in Python**

**2018**

**License MKYVSW5Q7XPV**

**Python Programming: A Concise Introduction**

**2018**

**License C9Q2V85663AD**

**Machine Learning Foundations: A Case Study Approach**

**2017**

**License DPH7JVEGD242**

**Practical Machine Learning**

**2016**

**License MBEPW4VWQD56**

## TEACHING EXPERIENCE

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**Multimedia University**

**Teaching Assistant** for Assoc. Pro. Dr. Kalaiaarasi

Tutored “Software Engineering” and “Data Mining” courses to Degree’s students.

**2016 - 2017**

**Teaching Assistant** for Mr. JayaKumar Krishnan

Tutored “Network Security” course to Degree’s students

**2015 –2016**

**SPM tutor** (Bio, Physic, Chemistry, Add Maths)

**2012 –2017**

## WORK EXPERIENCE

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### **Machine Learning Researcher MMU (Data analysis, Sentiment Mining, Design an Algorithm, Natural Language Processing)**

**Oct 2014 – Oct 2017**

- Research and develop statistical learning models for data analysis.
- Collaborate with product management and engineering departments to understand company needs and devise possible solutions.
- Keep up-to-date with latest technology trends.
- Communicate results and ideas to key decision makers.
- Implement new statistical or other mathematical methodologies as needed for specific models or analysis.
- Optimize joint development efforts through appropriate database use and project design.

### **Machine Learning Research Officer (MMU : Telekom Sentiment Project)**

**Oct 2017- Apr 2018**

- Research and develop statistical learning models for data analysis.
- Collaborate with product management and engineering departments to understand company needs and devise possible solutions.
- Keep up-to-date with latest technology trends.
- Communicate results and ideas to key decision makers.
- Implement new statistical or other mathematical methodologies as needed for specific models or analysis.
- Optimize joint development efforts through appropriate database use and project design.

### **Lecturer in LimKokWing University (Student Coordinator)**

**Oct 2017-Dec2018**

Responsible for carrying out teaching and research duties in Artificial Intelligent and Business Intelligent. Involved in the administration of degree and foundation courses as well as responsible for organizing lectures and supervising seminars and tutorials.

- Involved in the research and designing of new courses and materials.
- Assessing students course work and material.
- Involved in the setup of exams and the marking of results.
- Responsible for the departmental administrative tasks.
- Providing mentoring, advice and support to students on a personal level.
- Implementing University research projects.
- Prepared monthly reports for senior management team.
- Actively leading class discussions and encouraging debate.

**Jan 2019-Present**

### **Data Analytics/Data Scientist/ Data Analyst in Sapuraenergy Berhad**

- Lead and / or support 1 to 4 projects in the area of BI & Analytics.
- Engage with global stakeholders and translate business requirements & solutions into BI / Analytics solutions and requirements.
- Use analytical models to identify insights that are used to drive key decisions across the organization.

- Build and maintain data driven optimization models, experiments, forecasting algorithms and capacity constraint models.
- Leverage tools such as Python, PowerBI, Excel, Spark and Scikit-learn to drive efficient analytics.
- Building and implementing AI models to meet business needs.
- Work cross-functionally to define problem statements, collect data, build analytical models and make recommendations.
- Governs Material Master and Vendor Master data in SAP and Symphony.
- Create Material in SAP for business project for PR requester.
- Register supplier in supplier registration system in Symphony.
- Govern and assess the registered supplier status.

## SKILLS

- Programming languages: C++, Python, C#, R language
- Research tools: Python, IPython, yTextminer, Rtext Tool, Weka, Spark, Spacy, NLTK, scikit-learn, Numpy, Scrapy & BeautifulSoup (web scrapping), Jupyter Notebook, TensorFlow 2.0
- Data Mining Techniques, Machine Learning Algorithms
- Sap MM, Sap BW, Sharepoint, Symphony, NoSQL, MySQL
- Microstrategy, PowerBI, Google Analytics

## RESEARCH INTERESTS

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- **Sentiment Mining**
- **Conditional Random Field**
- **Decision Tree**
- **Personalized Information Retrieval**
- **Machine Learning**
- **Deep Learning**
- **Text processing**
- **Data Science**

## JOURNAL PUBLICATIONS

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- S. M. A. Kalaierasi, S. Surendran, and K. K. Jaya, "The Generation of Malay Lexicon" **American Journal of Applied Sciences**, vol. 14, pp. 503-510, 2017.
- Selvaraju, S., & Anbananthen, K. S. M. (2019). Opinion Extraction on Online Malay Text. **American Journal of Applied Sciences**, 16(4), 134-142.

## LINK

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- <https://github.com/Sureniology>
- <https://www.linkedin.com/in/surendran-selvaraju-b8040185/>

## AWARDS

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- **Gold medal ITEX'16**
- **Gold medal MMU INOVATION'16**
- **Silver medal PENCIPTA' 15**

## REFERENCES

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### **Assoc. Prof. Dr. Kalaiarasi Sonai Muthu Anbanathan**

Associate Professor

Faculty of Information Science & Technology

Multimedia University

Bukit Beruang - 75450, Malaysia

06-2523344

[kalaiarasi@mmu.edu.my](mailto:kalaiarasi@mmu.edu.my)

### **Assoc. Prof. Dr. Omar**

Faculty of Information Science & Communication Technology

Limkokwing University

Cyberjaya - 63000 Cyberjaya

03-8317 8888

[omar.abouabdalla@limkokwing.edu.my](mailto:omar.abouabdalla@limkokwing.edu.my)

### **Rodney Edward Casmiro Barretto**

Head, Assets & Operation Procurement, Supply Chain

Sapuraenergy Berhad

03 8659 8580

[rodney.barretto@sapuraenergy.com](mailto:rodney.barretto@sapuraenergy.com)

### **Mohammad Iqbal Hakim Ibrahim**

Lead, Catalogue Management,

Gtssc-Supply Chain-Performance Sys Suppt

Sapuraenergy Berhad

03 8659 8044

[iqbalhakim.ibrahim@sapuraenergy.com](mailto:iqbalhakim.ibrahim@sapuraenergy.com)