



BUSINESS ANALYTICS TECHNICAL EVENING 2019

Hosted by **NUS Business Analytics Centre**

SUPPORTED BY NUS BUSINESS SCHOOL & NUS COMPUTING



19 SEPTEMBER | THURSDAY

1830 - 1900	Registration
1900 - 1915	Opening
1915 - 2030	Dinner
2030 - late	Outstanding Capstone Project Award (OCPA) Announcement

LIST OF STUDENTS' CAPSTONE PROJECTS 2019

1	Optimal Manpower Planning Using Stochastic Programming and AI <i>by PHAM HUONG GIANG</i>
2	NLP of Customer Feedback Through Different Channels <i>by WU DANI</i>
3	Improved Revenue Forecasting Utilising Time Series Techniques <i>by JAMES THORNTON LAYBOURN</i>
4	Staff Health Status and Attrition <i>by TAN HONG XIU</i>
5	Appointment Scheduling at a Specialist Outpatient Clinic of SingHealth <i>by HE WENJING</i>
6	Improving Customer Care with NLP Through Topic Modeling and Sentiment Analysis <i>by CAO CHANG</i>
7	Your Pregnancy Care Powered by Deep Learning Models <i>by YI SUQIN</i>
8	Alternative Credit Scoring Using Unstructured Data and Deep Learning <i>by SHIVAM BANSAL</i>
9	Customer Journey Discovery with Clickstream Data Analysis <i>by TAY JUN LIANG</i>
10	Sales Forecasting in Consumer Products <i>by HU HUANRAN</i>
11	Association Between Characteristics of Asthma Patients and Risk of Severe Exacerbation in Singapore <i>by KOH WEN LIN GERALDINE</i>
12	Optimizing Promotion Sell-Out in the FMCG Industry <i>by CHEE WAI KIN SIMON</i>
13	Criminal Bitcoin Address Classifier <i>by ONNI-PEKKA NIEMELA</i>
14	Building Causal Relationship for Merchant Benefit <i>by HARSHIL PARASHAR</i>
15	Beauty Trend Engine: Transfer Learning with Transformers <i>by AMIT PRUSTY</i>
16	Activity Graph Modelling: A Novel Framework for Predicting Internet User Identity <i>by XIAO WEIZHANG BERTRAND</i>
17	Big Data Solution to Enable Self-Service Analytics by Front-Line Sales Teams <i>by SUHWAN CHUNG</i>
18	Passenger Cancellation Prediction Based on Ride-Level Features <i>by QIAO CHENG</i>
19	Anomaly Detection and Root Cause Attribution for Business Metrics <i>by SAIYA JIANG</i>

20	A Longitudinal Study on Student's Academic Journey & Prediction of Learning Outcomes via Progression Rate <i>by LIM SHI YING SHERRIE</i>
21	Uncovering and Characterising Patterns in School Choices at Primary and Secondary Levels: A Machine Learning and Network Analytic Study <i>by QUEK SIEW HUEY GLENDA</i>
22	Qualification of Leads with Win Propensity Prediction <i>by ALLE SRAVANI</i>
23	Fraud Detection Engine <i>by YEO WEI LING</i>
24	Customer Churn Prediction in Container Liner Shipping <i>by SOPHIA YUE QI HUI</i>
25	Predicting Cross-Selling as Rare Events to Improve Marketing Operations <i>by MARTIN AUTIER</i>
26	Text Analysis & Issue Resolution Time Prediction <i>by YIN MINGJUN</i>
27	Anomaly Detection for Lift Door <i>by WU ZHEYU</i>
28	Exploring Machine Learning Techniques for Customer Response Prediction of Marketing Campaigns <i>by LIANG XINRAN</i>
29	Forecast Supply-Demand of Taxis at Changi Airport <i>by PARAM MAHESH BIYANI</i>
30	Predicting Traveller's Propensity to Purchase P&C <i>by PRANAV PRATHVIKUMAR RAI</i>
31	Prediction of Customer Future Spending <i>by ZHANG CHUQING</i>
32	Customer Network Analysis for Lead Generation <i>by ADITHYA SELVAGANAPATHY</i>
33	Data Analytics on Travel Insurance <i>by LUO HUI</i>
34	Anomaly Detection Using Unsupervised Modelling and Active Learning <i>by REN JIEWEN</i>
35	Email Surveillance for Data Loss Prevention (DLP) – Reinforcement Learning <i>by SHIKHAR SAXENA</i>
36	Services Request Prediction with Two Stage Modeling Method <i>by STEVEN TSENG</i>
37	Predicting Call Topics from Internet Banking (IB) Data Using Graph Analytics <i>by TOH JING XIANG</i>
38	Enhanced Money Laundering Detection with Machine Learning and Network Analysis <i>by WEE LI YEN</i>

39	Analytics in Fraud Investigations for E-Discovery Services <i>by VINOD VIJAYAKUMARAN</i>
40	Machine Learning in Programmatic Advertising <i>by SHUBHANSHU GUPTA</i>
41	Churn Prediction in B2B for Retention and Profitability <i>by ADITYA GUPTA</i>
42	Quantitative Trading Strategy – Relative Strength of Support and Resistance Level <i>by LIANG SHIJIE</i>
43	Predictive Estimation of Product Failures: An Industry 4.0 Approach <i>by ARCHITHA KISHORE</i>
44	Manufacturing Optimization via ML Method <i>by LI LIPING</i>
45	Applying Machine Learning Models for Predicting Financial Restatements <i>by MOOKKANDI SATHAN KARTHIKEYAN</i>
46	Text Analytics – Text Summarization <i>by SHIEN DING</i>
47	Machine Learning Based Statistical Model for Wafer Yield Prediction <i>by ASHESH SASIDHARAN</i>
48	Outserving Customers Through Automated Behavioral Insights <i>by MAO WENJIAN</i>
49	Predictive Quality <i>by LUO XUAN</i>
50	Global Shared Offering Framework Analysis <i>by QIU XU</i>
51	Innovations In APAC Financial Services <i>by LIU XIAO</i>
52	Applying Deep Learning Techniques for Ultrasound Image Classification <i>by CAO HUIMIN</i>
53	Automated Causal Extraction on Health-Related Topics from Twitter <i>by KOH JUAN ZHEN</i>
54	Mitigating Unintended Bias in Text Classification <i>by SUNDARAM S/O K VALLIAPPAN</i>
55	Worldwide Consumer Sales Forecasting Enhancement <i>by HAN BING</i>
56	Market Access Impact Analysis and Pharmaceutical Sales Forecasting <i>by KOK ZHI WEI</i>
57	Supply Chain – Spend Forecasting <i>by LOH KWANG YEN MATTHEW</i>

58	Pricing Strategy Using Predictive Analytics <i>by MONICA RAVIPUDI</i>
59	IT System Health Monitoring and Analysis with Elastic Stack <i>by SPATIKA NARAYANAN</i>
60	Predictive Analytics in Balance Sheet, P&L and Cash Flow Forecasting <i>by ZHANG AO</i>
61	Exploring Machine Learning for Room Allocation Strategy <i>by CUN XIAOFEI</i>
62	Restaurant Demand Forecasting in an Integrated Resort <i>by ER SIEW HONG</i>
63	Next Best Offer <i>by SIN YU FAN</i>
64	Customer Segmentation & Loyalty Program Design <i>by WANG XINRUI</i>
65	Shopping Mall Space Optimization <i>by ZHANG NAIFAN</i>
66	Capacity Capital Optimization <i>by JASON CHEW GUO JIE</i>
67	Machine Learning Descriptive Analysis & Forecasting of Ozone <i>by ZHANG KANG'EN</i>
68	Auto-Extract Cancer Drug Clinical Trial Info via Natural Language Processing <i>by ZHENG YIRAN</i>
69	Unsupervised Learning for Anomaly Detection in Payment Transaction Records <i>by XU YIMING</i>
70	Machine Learning for Increased Sales of Household Brand <i>by YAGNA SRIKANTH AKELLA</i>
71	Sentiment Analysis on Financial News <i>by CHEN TING</i>
72	Meeting Minutes Assistant <i>by FEN ZHOU & GANESHKUMAR SUNDARARAJ</i>
73	In Quarter Forecasting Model <i>by VRIDDHI SHETTY</i>
74	Contract Digitalization <i>by XIAO RUI</i>
75	Trading Behavior Analytics in Securities Market <i>by WANG LEI</i>
76	Demand Forecast for Overseas Warehouse Products <i>by XIAOHENG WANG</i>

77	Airline Delay Management Optimizer <i>by WANG XINWEI</i>
78	Text Analytics for Interview Data <i>by SOH YING YING</i>
79	Prediction of Length of Stay in a Public Hospital Using Machine Learning Techniques <i>by ERNA GONDO SANTOSO</i>
80	Operations Management Dashboard for SHP Laboratories Using Data Analytics <i>by AAU WAI KEONG</i>
81	Correlational Process Control (CPC) <i>by CHUA HIAN CHOON & NGOH CHANG CHIAT VINCENT</i>
82	Improving Quality of Inputs with Incoming Quality Control Data <i>by TOH PEI XUAN</i>
83	Pax Load Prediction <i>by DINESH KUMAR AGARWAL VIJAYAKUMAR</i>
84	Prediction of Taxi-in Time for Arriving Flights <i>by HEMANAND MOORTHY</i>
85	An Empirical Classification Application on Addressing Mortgage Needs <i>by SHUQI CHEN</i>
86	Increasing Credit Card Share of Wallet <i>by WANG YUANHONG</i>
87	Inspecting the Impact of Digitalization on UOB Account User <i>by XIE RONGHAO</i>
88	Right Relationship Manager Right Customer <i>by XU YINING</i>
89	Factor Investment in Fixed Income <i>by HONG LI</i>
90	Machine Learning Techniques Applied to Stock Price Prediction <i>by XU CHUN</i>
91	Express Demand Forecasting Based on LSTM Recurrent Neural Network <i>by HUANG LIFEN</i>
92	Recommendation System to Avoid Customer Churn <i>by CHO ZIN TUN</i>
93	User Behaviour Analytics <i>by NANXIN WANG</i>
94	Investigating Cloud Computing Cluster Trace via Learning-Based Approaches <i>by ZHOU FENGYI</i>