



Dr. Taufik Sutanto, MScTech

Education	<div><div>Khalifa UniversityAbu Dhabi-UAE</div><div><div>➤ Postdoctoral – Data Driven Dynamical Systems</div><div>➤ Start Date: January 2022</div><div>➤ Conferral Date: September 2022</div></div></div> <div><div>Queensland University of TechnologyBrisbane-Australia</div><div><div>➤ PhD - Data Science for Big Data</div><div>➤ Start Date: 25 February 2013</div><div>➤ Conferral Date: 19 July 2017</div></div></div> <div><div>Tohoku UniversitySendai-Japan</div><div><div>➤ Research Program - Machine Learning</div><div>➤ Start Date: 02 April 2007</div><div>➤ Conferral Date: 14 September 2007</div></div></div> <div><div>University of New South WalesSydney-Australia</div><div><div>➤ MScTech - Master of Sci & Tech. in Math (Data Mining)</div><div>➤ Start Date: 21 January 2003</div><div>➤ Conferral Date: 13 May 2005</div></div></div> <div><div>University of IndonesiaDepok-Indonesia</div><div><div>➤ Ssi - Bachelor in Mathematics (Computation & Statistic)</div><div>➤ Start Date: 25 June 2001</div><div>➤ Conferral Date: 27 July 2001</div></div></div>
Data Science Projects/Experience	<div><div>➤ PT PJB (2021): Machine Predictive Maintenance Solution for Manufacturing Industries.</div><div>➤ PPIM-N (2020): Analysis on large video-audio data, Speech recognition analysis. Radio-Podcasts.</div><div>➤ PPIM-N (2020): Analysis on large video-audio data, Speech recognition analysis. Developing Special Network of topic models. Youtube-TV.</div><div>➤ PPIM-N (2020): Large historical data analysis on social media data (text, images, and videos) for detecting social behaviour changes in Indonesia.</div><div>➤ KemenDes (2019): Rural village recommendation model.</div><div>➤ TNI AD (2019): Ranking-based model on budget planning priorities.</div><div>➤ Traveloka (2019): systematic data science in-house training program.</div><div>➤ RIRDC-CSIRO-Australia (2016): Temporal clustering on unstructured data from social media and publications.</div><div>➤ QUT-Australia (2015): Fine-grained Social Event Detection on multi-modal data.</div><div>➤ KDDI - Japan (2007): Episodes mining on graph-series data for elderly health support.</div></div>

Employment History	<p>tau-data Indonesia Depok, Indonesia</p> <p>Founder – CEO</p> <ul style="list-style-type: none"> ▪ (Big) Data Scientist Chief Engineer. ▪ Data science and big data analytics ▪ Start Date: 04 January 2019 ▪ Until: 2022
	<p>University of Indonesia Depok, Indonesia</p> <p>Lecturer (PKWT)</p> <ul style="list-style-type: none"> ▪ Data Mining, Algorithm and programming, calculus, etc ▪ Department of Statistics and (was) Faculty of engineering. ▪ International and standard programs. ▪ Start Date: 08 January 2018 ▪ Until: Present
	<p>State Islamic University of Syarif Hidayatullah Jakarta, Indonesia</p> <p>Senior Lecturer</p> <ul style="list-style-type: none"> ▪ Lecturer at Mathematics Department, Faculty of Science (and Technology). ▪ Lektor/III.c Penata 197905302006041002. ▪ Research: Data Science, Big Data, Social media Analytic. ▪ Subjects: Data Mining (science), Calculus, Parallel Programming, Statistics, Stochastic Modelling, Data Structure & Analysis of Algorithm, Database. ▪ Start Date: 01 April 2006 ▪ Until: Present
	<p>Queensland University of Technology Brisbane, Australia</p> <p>Sessional Academic Staff</p> <ul style="list-style-type: none"> ▪ Subjects: Data Mining Technology and Applications. ▪ Postgraduate class ▪ SAS Enterprise Miner, Python. ▪ Start Date: 23 February 2017 ▪ Until: 12 Juni 2017
Publications	<ul style="list-style-type: none"> ▪ Sutanto, Taufik, and Richi Nayak. "Fast Knowledge Discovery in Social Media Data using Clustering via Ranking", CITSM, 2021. ▪ Empirical evaluation on discounted Thompson sampling for multi-armed bandit problem with piecewise-stationary Bernoulli arms. <i>Journal of Physics: Conference Series</i> 1722 (1), 012096, 2020. ▪ Sutanto, Taufik, and Richi Nayak. "Fine-Grained Document Clustering for Social Media Analytics." <i>Journal of Social Network Analysis and Mining, Springer, April 2018</i> (Q1). ▪ Yanne Irene, Muhammad Ichsan, Taufik Sutanto. Controversy Analysis on Several Indonesian Social Media Topics Using Betweenness Centrality, The 2nd International Conference of Combinatorics, Graph Theory, and Network Topology including the application of mathematics and mathematics education, 24-25 November 2018, University of Jember, East Java, Indonesia. ▪ Bambang Ruswandi, Raspiani, Taufik Sutanto. Optimal hot spot analysis of Indonesia's political opposition hashtag. The 2nd International Conference of Combinatorics, Graph Theory, and Network Topology including the application of mathematics and mathematics education, 24-25 November 2018, University of Jember, East Java, Indonesia. ▪ Sutanto, Taufik. "Scalable Fine-Grained Document Clustering via Ranking." <i>Queensland University of Technology, May 2017</i>, PhD Thesis.

	<ul style="list-style-type: none"> ▪ Sutanto, Taufik, and Richi Nayak. "Semi-Supervised Document Clustering via Loci." <i>Web Information Systems Engineering</i>. Vol 8788, Springer International Publishing, November 2015 (Scopus). ▪ Sutanto, Taufik, and Richi Nayak. "Ranking Based Clustering for Social Event Detection." <i>Working Notes Proceedings of the MediaEval 2014 Workshop</i>. Vol. 1263. CEUR Workshop Proceedings, 2014. (Scopus) ▪ Sutanto, T., & Nayak, R. (2014). The Ranking Based Constrained Document Clustering Method and Its Application to Social Event Detection. Springer LNCS vol 8422 ,Database Systems for Advanced Applications (DASFAA), Bali, Indonesia. (Scopus). ▪ Sutanto, T., & Nayak, R. (2013). ADMRG @ MediaEval 2013 Social Event Detection. CEUR-WS.org, vol 1043 ,Proceedings of the MediaEval Workshop, Barcelona, Spain. (Scopus) ▪ Handling Missing Values in Multiclass Multisurface Proximal Support Vector Machines, Proceedings on <i>International Conference on Mathematics, Statistics and Their Applications, Bukit Tinggi, 2009</i>. ▪ Statistical Analysis of Multiclass Multisurface Proximity Support Vector Machines, Learning for Logic and Logic for Learning, International Workshop Miyazaki, Japan, 2007. ▪ Pattern Analysis Using Convex Optimization and Eigen Decomposition , Master Thesis, UNSW, 2005. ▪ Stabilized Hessian Matrix in Penalty and Barrier Method, Undergraduate Thesis, University of Indonesia, 2001.
Book	<ul style="list-style-type: none"> • Sarini and Taufik Sutanto, "Statistika Tanpa Stress", TransMedia Pustaka, 2015.
Academic Metrics	<ul style="list-style-type: none"> ▪ Google Scholar: h-index 5, i10 index: 5, citations: 205 ▪ Scopus (56154729600) : h-index: 4, docs: 7, citations: 41
Science Communities	<ul style="list-style-type: none"> ▪ I4: Ikatan Ilmuwan Indonesia Internasional ▪ INAPR: Indonesian Pattern Recognition Association ▪ AIDI: Asosiasi Ilmuwan Data Indonesia ▪ MLID: Machine Learning Indonesia ▪ Data Science, IoT, & Big Data Indoensia ▪ IndoMS: Indonesia Mathematicians Society ▪ ADI: Indonesian Lecturers Association.
Computer Skills	Python, R, SAS, C++, OpenGL, Sphinx, Elasticsearch, MongoDB, SPSS, Matlab, HPC: OpenMP & MPI, Latex, PHP-MySQL, Linux, Java, Gephi, Basics of Hadoop and Spark.
Scholarships	<ul style="list-style-type: none"> ▪ Postdoctoral Fellow (Khalifa University) 2022-2023 ▪ Australia Leadership Awards 2013-2017 ▪ Write-up Scholarship QUT 2017 ▪ Monbukagakusho [Research Program] 2007 ▪ Australian Development Scholarships [Master] 2004-2005 ▪ International Community Activity Centre-ICAC [Undergraduate] 2001
Research Grants	<ul style="list-style-type: none"> ▪ Social Network analysis: Analisa Historis Karakteristik Percakapan Media Sosial Masyarakat Indonesia dalam Membahas Topik Agama Menggunakan Topic Modelling 2020 ▪ Distributed Data & Distributed Processing Data Science, KemenAg – UIN Jakarta 2018 ▪ Multi-class Cancer Classification Using Proximity Approach, UIN Jakarta, 2006. ▪ Application of Six Sigma in Increasing the Quality of Mathematics and Science Education, 2009.
Others	<ul style="list-style-type: none"> ▪ Australian Leadership Awardees 2013-2017. ▪ One year Management, Leadership, and Entrepreneurship Training, Junior Achievement International, 2001-2002. ▪ Three years of basic computing and algorithms training, 1995-1997.

Keynotes, Speakers, Instructor

Title	Date	Event Committee	Venue
Social Media Data Visualizations	19-10 Nov 2021	UPN - Padang	Daring, Statistics Department UPN
Digital Data Gathering	13 Oktober 2021	UGM - Yogyakarta	Daring – Postgraduate School UGM
BPS Big Data Hackaton (Juri)	11 Okt 2021	BPS - Jakarta	Daring – Badan Pusat Statistik RI
Data Science dan End User Computing	05 Okt 2021	UIN - Medan	Daring Prodi SI UIN Medan
Workshop Machine Learning using Python	23 Aug – 02 Sep 2021	PT PJB - Surabaya	Daring – Pusmaka FMIPA UI - taudataID
Data Science with Python for Research	Juli 2021	Univ Nusa Mandiri	Daring – S2 Fak. Ilmu Komputer
Mathematics for AI	Juli 2021	FGA – Huawei – Kominfo	Daring - Kominfo
Lexicon-Dictionary for AI in Indonesia	Juli 2021	Pusat bahasa - Kemdikbud	Daring – Pusat Bahasa Kemdikbud
Deep Learning Workshop	05 Maret 2021	Universitas Muhammadiyah Jember	Daring - SI
Data Story Board Challenge (jury)	20 Feb 2021	Universitas Indonesia	Daring – FMIPA UI
Webminar Promoting Religious Moderation using Data Science and Big Data	27 February 2021	QUIC-CUACI Australia	Daring – Curtin Univ., QUT
Data Science & AI for Software Engineer	29 Nov & 1 Dec 2020	STMIK Nusa Mandiri	Daring – Bisa AI
Ministry of Religious Affair Data Validation & Accuracy Project Evaluator	17-18 Nov 2020	Ministry of Religious Affair	Hotel Santika Bintaro
Academic Validator National Statistics	November 2020	BPS Republik Indonesia	Daring - BPS
FGA AI Academy Instructor	October 2020	KominFo - IBM	Daring – IBM Cloud
Big Data Challenge Principal Jury	October 2020	KemenDikBud – IPB	IPB - Daring
Indonesia Power Induction 2020	18-03-2020	Indonesia Power (PLN)	Daring – Ms Team
IDBigData MeetUp #25 in Bapan Pusat Statistik (BPS): Statistika dalam Big Data	27-02-2020	IdBigData	BPS RI Pusat
Workshop Data Science dan Social media Analytics	03~04-02-2020	Departemen Statistika Universitas Hasanuddin	Makassar
Workshop machine learning, Text Mining, dan Social network Analytics	27~31-01-2020	FiKom Universitas Muslim Indonesia	Makassar
HR Analytics	17-19-19	Vanaya Digital	18 Tower Jakarta
Data Science & AI for Military	26-07-19	TNI AD	MaBes TNI AD
Digital Mind Transformation	27-03-19	TechForID	Jakarta Design Centre
Peran Ilmuwan Dalam Peningkatan Skill di era Industri 4.0	15-06-19	Ikatan Ilmuwan Indonesia Internasional	Daring - Webminar
Distributed Data – Distributed Processing Data Science	27-02-19	ID Big Data	Telkom University Bandung
Kupas Tuntas Big Data Analytics	22-06-19	WarTek	Daring - Webminar

Workshop Pengenalan Aplikasi Big Data dan Data Science dalam Bisnis dan Pemerintahan	24~25-04-19	Universitas Andalas	FEB Universitas Andalas
Peluang & Tantangan Data Science & Big Data dalam Dunia Pendidikan & Industri	05-07-19	Kalbis Institute	Kalbis Inst. JakTim
Big Data and (Marketing) Research	20-03-19	Deka Group	Independence Research Jakarta
Introduction to Data Science Workshop	18~20-06-19	UIN Bandung	FST UIN SGD Bandung
Studi Bahasa, Sastra, & Budaya dalam Big Data: Trend atau Hype?	05-04-19	Universitas Brawijaya	FIB UnBraw Malang
Big Data & Text Analytics in Industry	02-05-2019	Dirjen Pajak Pusat	DJP – Keuangan Jakarta
AI Academy	06~27-04-19	Babe – MenKo	Dirjen Pajak Malang
Workshop Text Data Mining & Natural Language Processing (NLP)	01~03-04-19	UAD	ITTC UAD Jogja
Pendahuluan Python untuk Data Science I	13~14-03-19	Tau-data Indonesia	Wisma Makara UI
Pengenalan Python & Machine Learning	26~28-7-18	BPPT Pusat	Santika BSD - Serpong
Text Mining & Data Visualizations	07~08-07-18	Synapse Academy	Palembang
Real-Time Text Mining via ElasticSearch	17~18-07-18	PT Bahasa Kita	Kali Malang Bekasi
Nvivo, Microsoft Word & Mendeley untuk Penelitian	23-24-01-19	UIN Jakarta	Fisip UIN Jakarta
Cost-Efficient and Scalable RealTime Text Mining via Term Vectors	30-07-18	BliBli	BliBli Jakarta
Big Data (Science) di Lembaga Pemerintahan: Peluang & Tantangan	06-03-18	Kominfo	NICT Kominfo TangSel
Peran Literasi dan Budaya digital dalam Pendidikan Modern dan Industri 4.0	04-11-18	UNY	UNY Jogja
Information All - Data Science: Peluang & Tantangan	08-09-18	UMJ	UMJ Jakarta
LKTI: Matematika dan Statistika Dalam Era Industri 4.0	18-03-19	Universitas Indonesia	FMIPA UI Depok
National Data Days: Scalable & Cost-Efficient Data Science for Small & Medium Enterprises	21-11-17	Telkom university	FEB TelU Bandung

Conferences/Seminars

Title	Date	Event Committee	Venue
CITSM 2021: Fast Knowledge Discovery in Social Media Data using Clustering via Ranking	22-23 Sept 2021	Universitas Prof. Dr. Hazairin, S.H. (UNHAZ),	Daring - Bengkulu, Indonesia
Academic Development: Foundations of Learning and Teaching	Jan-June/2017	Queensland univ. of Technology	Brisbane-Australia
MediaEval 2014 Workshop: Social Event Detection	16-17/10/2014	Delft university	Barcelona-Spain
The 19th International Conference on Database Systems for Advanced Applications	21-24/04/2014	DASFAA International	Bali-Indonesia
Fourth ACFID conference: Development Futures - Alternative Pathways to End Poverty	21-22 Nov 2013	University of Technology Sydney	Sydney-Australia

Australia Awards Leadership Conference	Sep 2013	Australian Education & Leadership Centre	Canberra-Australia
National Mathematics Seminar HPA	27/03/2010	Prodi Matematika UIN Jakarta	Banten
The 16th Intl' Conference on Web Information Systems Engineering - WISE	01-03/11/2015	Miami, Florida	USA