



UNIVERSITAS MUHAMMADIYAH SIDOARJO

LEMBAGA PENELITIAN DAN PENGABDIAN KEPADA MASYARAKAT

TERAKREDITASI
INSTITUSI B

Alamat: Jl. Mojopahit 666 B Sidoarjo 61215, Telp. 031-8945444 psw.130, Faks. 031-8949333
Email: lppm@umsida.ac.id, Website: lppm.umsida.ac.id

SURAT TUGAS

No: E.6/ 80.16. 74 /22.00/TGS/ VII /2018

1.	Pejabat yang memberi tugas	:	Kepala LPPM - Universitas Muhammadiyah Sidoarjo
2.	Nama yang diberi tugas	:	Irwan Alnarus Kautsar, S.Kom., M.Kom., Ph.D
3.	Jabatan	:	Dosen Universitas Muhammadiyah Sidoarjo
4.	Maksud Tugas	:	Mengikuti Workshop "Summer School 2018 Machine Learning And Deep Learning For Medical and Biomedical Applications" dalam rangka menunjang kegiatan Penelitian Pascadoktor
5.	Waktu dan Tempat	:	31 Juli 2018 s.d. 3 Agustus 2018 di Universitas Gunadharma Kampus K, Jl. Kelapa Dua Raya No.11, Klp. Dua, Tangerang, Banten 15810
6.	Keterangan lain-lain	:	Harap yang bersangkutan menjalankan tugas dengan penuh tanggung jawab, dan selesai melaksanakan tugas memberikan laporan secara tertulis.

Sidoarjo, 15 Juli 2018

Kepala LPPM



Dr. Nyong ETIS, M.Fil.I.





UNIVERSITI
TEKNOLOGI
PETRONAS

SUMMER SCHOOL 2018

Machine Learning & Deep Learning
for Medical & Biomedical Applications

CERTIFICATE OF ACHIEVEMENT

THIS IS TO PROUDLY CERTIFY THAT

Irwan Alnarus Kautsar

HAS WELL PARTICIPATED AS

PARTICIPANT

Summer School 2018 "Machine Learning & Deep Learning for Medical &
Biomedical Applications.

Universitas Gunadarma, July 31th - August 3rd, 2018

Supported by :



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Prof. Dr. Fabrice Mariaudeau

Director of Institute Health & Analytics
Univeristi Teknologi Petronas

Prof. Dr. E. S. Margianti, SE., MM

Rector of Universitas Gunadarma

COURSE MATERIAL

Machine Learning & Deep Learning for Medical & Biomedical Applications
Universitas Gunadarma, July 31th - August 3rd, 2018

Medical Imaging Acquisition

Biomedical Imaging

Data analytic using Power BI for medical and biomedical dataset

Python from scratch

Dimension reduction techniques ACP, SVD, BoW and SC-AP

Classification technique (KNN, SVM, RF, Ensemble)

Python for Machine Learning, Scikit-Learn

Deep Learning