MUHAMMAD REZA FAHLEVI

(+62) 812-7548-0237 ◇ muhammadrezafahlevi666@gmail.com
Github: github.com/m-RezaFahlevi ◇ Website: m-rezafahlevi.github.io

EDUCATION

University of Sumatera Utara (Medan, Sumatera Utara) *Aug 2018 - 2022*

- Bachelor of Computer Science (Sarjana Ilmu Komputer — S.Kom.)
- GPA (IPK): 3.56 / 4.00 (3,56 / 4,00)
- Favorite classes : Design & Analysis of Algorithms | Artificial Intelligence & Intelligence System | Heuristic Method | Probability and Statistics | Numerical Analysis | Image Processing | Modeling Technique and Simulation | Calculus | Discrete Mathematics | Automata — Grammar and Language

RESEARCH

Published

- Muhammad Reza Fahlevi, & Budiman, M. A. (2021). Computing the Value of Pi in the Manner of Lambda Function with R Statistical Programming Language. Data Science: Journal of Computing and Applied Informatics, 5(1), 39-48. https://doi.org/10.32734/jocai.v5.i1-5556

WORK EXPERIENCE

Badan Pusat Statistik Kab. Kampar - Software Developer Intern *Jul - Aug 2021*

- *Build a software for Desa Cinta Statistik Desa Laboy Jaya using R Shiny framework*

PROJECTS

ShinyImageProcessing: An image processing app simulation contain bluring, RGB filtering, Median filtering, 3 × 3 kernel convolution, generate 3 type of noise in images, and edge detection, ShinyImageProcessing is created by using framework for creating web application using R code, shiny

RCGA: A real-coded genetic algorithm for solving real-parameter optimization problem for function in R^3, written in R and Python

ilkom: R packages to find critical value of statistics z, t, $\chi 2$, and f for dynamic significance level by using heuristics procedure based on binary search, bisection method, and tabu search

VNS: Minimizing error sum of square (SSE) of multi-linear regression model using Variable Neighborhood Search for continuous optimization problem

TSP: Solving Travelling Salesman Problem (TSP) by using Simulated Annealing (SA) and Tabu Search (TS) algorithm

TECHNICAL SKILLS AND INTEREST

Languages	R | Python | Julia | C++ |LaTeX | MySQL | Javascript | HTML and CSS | Bootstrap | Java |
Software & Tools	LyX High Level LaTeX Frontend | RStudio |Visual Studio Code | VIM | R shiny | dplyr | ggplot2 | plotly | pandas | Jupyter |
Current Interest	(Meta) Heuristic Method | Probability & Statistics | Linear Algebra | Pattern Recognition and Machine Learning | Data Analysis | Design & Analysis Algorithm | Deep Neural Evolution |
Awards	Participant in Province Science Olympiad for Chemistry, year 2017 | Participant in Province English Debate Competition |