

Application of Technology Artificial Intelligence in Claim Settlement at PT. Asuransi Allianz Life Syariah Medan Branch

Fachrunisa Winda Marpaung; Nuri Aslami; Ahmad muhaisin B. Syarbaini

Implementation of Web-Based Administrative Payment Information System Using Laravel 10 Framework

Tatik Wulandari; Iwan Setiawan Wibisono

Expert System for Assessing Anxiety Levels in Toxic Relationships Using the Case-Based Reasoning Method Based On The Web

Intan Putri Ariska; Filmada Ocky Saputra M.Eng

Examining the Impact of Software Testing Practices on Software Quality in Batam Software Houses

Suwarno; Syaeful Anas Aklani; Nellsen Purwandi

Rice Quality Identification Built on Indonesian Food Standards Based on Electronic Nose using Naïve Bayes Algorithm

Muhammad Jauhar Vikri; Ifnu Wisma Dwi Prastya; Ucta Pradema Sanjaya; Mula Agung Barata

Design and Construction of a Website-Based Tourist Bus Rental System Using the Extreme Programming Method

Nida Karima; Defri Kurniawan

The Implementation of AWS Cloud Technology to Enhance the Performance and Security of the Pharmacy Cashier Management System

Hendy Kurniawan; L. Budi Handoko; Valentino Aldo

Optimization of Variable Combinations for Household Electricity Consumption Prediction Using a Multivariate Time Series Machine Learning Approach

Akhmad Faeda Insani; Ahmad Mushawir; Zainuddin; Aditya Adiaksa; Sparisoma Viridi

Implementation of a Web-Based Student and Teacher Attendance System With QR Code Integration using the RAD

Ganesh Lindung Nusantara; Rian Andrian; Nuur Wachid Abdulmajid

Public Sentiment Analysis on Dirty Vote Movie on YouTube using Random Forest and Naïve Bayes

Christ Mario; Ryan Randy Suryono

User Experience Evaluation of e-Puskesmas in Payakumbuh City using the User Experience Questionnaire Method

Furqan Anwari; Eki Saputra; Arif Marsal; Mona Fronita; Muhammad Jazman; Syafril Siregar

Measuring The Level of Cybersecurity Awareness of Social Media Users Among Students

Muhammad Agung Al Affan; Mona Fronita; Eki Saputra; Muhammad Luthfi Hamzah; Zarnelly

Analysis of Rice Yield Prediction with Mlpregressor and Long Short-Term Memory Models

Sunoto; Mangapul Siahaan

Implementation of a Teacher Development Website with Waterfall Development to Support the Teacher Promotion Process at SMP 2 Jekulo Kudus

Ahmad Fahrudin; Endang Supriyati; Tri Listyorini

Analysis of User Satisfaction of SAINS Pahlawan Tuanku Tambusai University Using the EUCS Method

Raihan Alfarisy; Idria Maita; Tengku Khairil Ahsyar; M. Afdal

Application of Waterfall Method in Sales System using Laravel 10 Framework in Bella Grocery Store

Fernanda Bagus Dwi Prastyo; Abdul Rohman

Analysis of Acceptance and Use of QRIS Payment Method using the UTAUT-3 Model

Atha Kurniawan; Muhammad Jazman; Mona Fronita; Tengku Khairil Ahsyar

Redesign of User Experience in Inaportnet Using the User Experience Questionnaire Method TND User-Centered Design

Muhamad irvandra irvan; muhamad Jazman jazman; Eki Saputra Eki; Syaifullah; Tengku Khairil Ahsyar

Development of Automatic Waste Classification System using CNN-Based Deep Learning to Support Smart Waste Management

Luntungan Stephen Pieters



Risk Management of Information Security in Inaportnet Using ISO/IEC 27005:2018

Bintang Rahmat Riadi

Sentiment Analysis of Gojek, Grab, Maxim Applications Using Support Vector Machine Algorithm

Muhammad Iqrom; M. Afdal; Rice Novita; Medyantiwi Rahmawita; Tengku Khairil Ahsyar

Analysis of Service Quality on User Satisfaction Using the E-Servqual, IPA and CSI Methods

Ovie Julian Trivani

Development of a Mobile Web-Based Food and Beverage Ordering Application in a Youth Cafe With QR Code Technology

Adilla Faradila A.Sagaf; Ichsan Ibrahim

Analysis of User Satisfaction with the Mnet Plus Application Using the End-User Computing Satisfaction Method

Gunawan Witjaksono; Nanda Silva

Comparison of Naïve Bayes, Random Forest, and Logistic Regression Algorithms for Sentiment Analysis Online Gambling

Dwi Nanda Agustia; Ryan Randy Suryono

Adaptive Dynamic Activity Mapping: a Novel Approach to Real-time Heatmap with YOLOv8

Mr. Nursiyanto; Mrs. Dona Yuliawati; Anggi Andriyadi

Sentiment Analysis of the Influence of the Korean Wave in Indonesia using the Naive Bayes Method and Support Vector Machine

Natasha; Ryan Randy Suryono

Application Of K-Means Algorithm to Cluster Students' Reading Patterns in the Digital Age

Yongky Permana Putra; Reflan

Implementation of the PSO-SMOTE Method on the Naive Bayes Algorithm to Address Class Imbalance in Landslide Disaster Data

Azwar Damari; Taghfirul Azhima Yoga Siswa; Wawan Joko Pranoto

Development of Android-Based Management Information System Application for Student Final Project Services



Mukhammad Rivaldi Ghani; Dwi Sukma Donoriyanto

a Sentiment Analysis of Free Meal Plans on Social Media using Naïve Bayes Algorithms

Yoga Zaen Vebrian; Kustiyono

Optimization of Intrusion Detection System with Machine Learning for Detecting Distributed Attacks on Server

Teddy Yuliswar; Ikhwana Elfitri; Onno W purbo

Analysis of Student Satisfaction in Axioo Class Program Towards LMS UPMYSKILL using Technology Acceptance Model

Atiek Zahratul 'Ulum; Suprih Widodo

Implementation of the Profile Matching Method in the South Sumatra PON Basketball Player Selection Decision Support System

Aditya tri wulandari tya; Parjito

Design of a Web-Based Regional Food Ordering Information System at Seribu Rasa Restaurant

Ahmad Fadhil Kurniahadi Al Jufri; Sagala Alex Paskalis; Novi Rukhviyanti

Decision Support System for Business Location Selection using the AHP Method Based on Android

Hizkia Hendra Rianingsih; Widyastuti Andriyani

Sentiment Analysis of Lazada Marketplace User Ratings with Naïve Bayes and Support Vector Machine Methods

Sugeng Setyabudi; Enny Aryanny

Analysis of the Performance Quality of the Information System and Information Technology of the Shopee Application Using Cobit 2019

Kevin Fransisco; Hendry

Prediction of Electricity Bill Payment Delays for Customers Using a Machine Learning Approach

Dyah Puspita Sari Nilam Utami; Mochamad Ikbil Arifyanto

Comparison of Effectiveness of Machine Learning Methods in Predicting Chemical Compound Toxicity Enhance Pharmaceutical Product Safety

Dufan Yuwana; Prof. Dr. Pulung Nurtantio Andono, S.T., M.Kom.; Hendy Kurniawan



Analysis of User Satisfaction on the ShopeePAY Application by Using the Usability Method

Fitriasari Fatinah; M. Rudi Sanjaya

Analysis Of Library Visitors' Interest Using Factor Analysis And Discriminant Analysis

Hery Santono; Eko Sedyono; Hindriyanto Dwi Purnomo

Customer Data Management For Citynet Using Geolocation-Based Internet Broadband Registration Form Application

Alfiano Aldo Pamungkas; Kustiyono

Implementation of Agile and Waterfall Methods in a Web-Based Admission System for Streamlined Registration and Communication

Wafiq Lana Pradana; Agung Wibowo

From Data Imbalance to Precision: SMOTE-Driven Machine Learning for Early Detection of Kidney Disease

Aldani Adi Bhirawa; Pradema Sanjaya

Consumer Satisfaction Analysis at Inos Coffee & Kitchen Using the C4.5 Algorithm

Dedy Alan Wirawan; Abdul Rohman

Website-Based Baduy Tourism Information System Using The Software Development Life Cycle Method

Putri Adinda; Devita Eviliana; Novi Rukhviyanti

Minimarket Sales Optimization: Implementation of FP-Growth dan MongoDB With Python

Nia Kurniati; Novi Rukhviyanti

Classification of Elderly Health Using K-Nearest Neighbor Comparison, Naive Bayes and Decision Tree

Alviant Chandra Kusuma; Hari Soetanto

Application of Random Forest Method for Television Malfunction Prediction

Elfira Aulia Septrian; Erna Zuni Astuti; M.Kom

Enterprise Architecture for Enhancing Self-Service Offerings in Digital Channels Within the Telecommunication Industry

Muhamad Rendi Novrian; Erick Dazki



DEWAN REDAKSI Pelindung
P3M Politeknik Negeri Bengkalis

Editor In Chief

Agus Tedyyana, Politeknik Negeri Bengkalis, Indonesia

Managing Editor

Jaroji, Politeknik Negeri Bengkalis, Indonesia

Tim Editorial

Suherman Suherman, Universitas Pembangunan Panca Budi, Indonesia

Yoppy Yunahasnawa, Politeknik Negeri Malang, Indonesia

Rengga Asmara, Politeknik Elektronika Negeri Surabaya, Indonesia

Dwi Susanto, Politeknik Elektronika Negeri Surabaya, Indonesia

Muhammad Riza Nurtam, Politeknik Pertanian Negeri Payakumbuh, Indonesia

Susilawati, Universitas Riau, Indonesia

Lisnawita, Universitas Lancang Kuning, Indonesia

Nurul Fahmi, Politeknik Negeri Bengkalis, Indonesia

Fajri Profesio Putra, Politeknik Negeri Bengkalis, Indonesia

Mansur Mansur, Politeknik Negeri Bengkalis, Indonesia

Wahyat Wahyat, Politeknik Negeri Bengkalis, Indonesia

Afis Julianto, Politeknik Negeri Bengkalis, Indonesia

Mitra Bestari

- Mr. Abdullah Abdullah, Scopus id: [57206889771](#), Universitas Islam Indragiri, Indonesia
Mr. Osman Gazali, Scopus id: [55953618400](#), University Utara Malaysia, Malaysia
Ms. Kelik Sussolaikah, Scopus id: [57209271915](#), Universitas PGRI Madiun, Indonesia
Dr. Evizal Abdul Kadir, Scopus id: [57217215616](#), Universitas Islam Riau, Indonesia
Mr. Udin Harun Al Rasyid, Scopus id: [55569020700](#), Politeknik Elektronika Negeri Surabaya (PENS), Indonesia
Mr. Benny Benyamin Nasution, Scopus id: [16022640200](#), Politeknik Negeri Medan
Mr. Uuf Brajawidagda, Scopus id: [55633386200](#), Politeknik Negeri Batam
Mr. Faisal Rahutomo, Scopus id: [55580867600](#), Universitas Sebelas Maret, Indonesia
Mrs. Erlin Erlin, Scopus id: [25824924600](#), Institut Bisnis dan Teknologi Pelita Indonesia, Indonesia
Mr. Onno Widodo Purbo, Scopus id: [57210296280](#), Institut Teknologi Tangerang Selatan, Indonesia
Mr. Edi Winarko, Scopus id: [8876439700](#), Universitas Gadjah Mada, Indonesia
Mr. Elgamar Syam, Scopus id: [57831471000](#), Universitas Islam Kuantan Singingi, Indonesia
Mr. Abdul Wahid, Scopus id: [56579924600](#), Universitas Negeri Makassar, Indonesia
Mr. Apri Siswanto, Scopus id: [57191620345](#), Universitas Islam Riau, Indonesia
Mr. Hermawan Setiawan, Scopus id: [57215528044](#), Politeknik Siber dan Sandi Negara, Indonesia
Mr. Windra Swastika, Scopus id: [55773044200](#), Universitas Ma Chung, Indonesia
Mr. Solikhun, Scopus id: [57211272339](#), STIKOM Tunas Bangsa, Indonesia
Mr. Taufik Hidayat, Scopus id: [59138025100](#), Universitas Islam Syekh Yusuf, Indonesia
Mr. R. Bagus Bambang Sumantri, Scopus id: [58286400300](#), Universitas Harapan Bangsa, Indonesia
Mr. Fajar Mahardika, Scopus id: [58197411400](#), Politeknik Negeri Cilacap, Indonesia
Mr. Febrian Wahyu Christanto, Scopus id: [57222167316](#), Universitas Semarang, Indonesia
Mr. Muqorobin, Scopus id: [57216410896](#), Institut Teknologi Bisnis AAS, Indonesia

Alamat Redaksi

Jurusan Teknik Informatika Politeknik Negeri Bengkalis
Jl. Bathin Alam, Kampus Sungai Alam Bengkalis 28751 Indonesia
Telp. (+62766) 24566/24577 Fax. (+62766) 8001000 email: jurnalinformatika@polbeng.ac.id

Jurnal Inovtek Polbeng Seri Informatika merupakan jurnal informatika berbasis penelitian ilmiah. Jurnal Inovtek Polbeng Seri Informatika terbit 3 kali dalam setahun. Secara berkala Jurnal Inovtek - Seri Informatika terbit setiap bulan Maret, Juli dan November

Tanggal terbit :

Edisi Maret : 31 Maret

Edisi Juli : 31 Juli

Edisi November: 30 November

Jurnal Inovtek Polbeng
Seri Informatika

Halaman
1 - 590

ISSN
2527-9866



Tentang Jurnal Inovtek Polbeng - Seri Informatika

Jurnal Inovasi dan Teknologi Seri Informatika (Jurnal Inovtek Polbeng - Seri Informatika) Politeknik Negeri Bengkalis merupakan jurnal informatika berbasis penelitian ilmiah. Jurnal ini diharapkan dapat sebagai wadah akademisi, peneliti dan praktisi menyebarkan hasil penelitian. Jurnal Inovtek Polbeng - Seri Informatika menerbitkan naskah berkaitan dengan *Web and Mobile Computing, Image processing, System Cerdas, Sistem Informasi, Database, DSS, IT project management, Geographical Information System, Teknologi Informasi, Computer Network and Security, Wireless Sensor Network*, dan lainnya.

Jurnal Inovtek Polbeng - Seri Informatika Terapan terbit 3 kali dalam setahun. Secara berkala terbit setiap bulan Maret, Juli dan November, Tanggal penting dapat dilihat dibawah ini :

Paper dapat dikirimkan melalui website <https://jurnal.polbeng.ac.id/index.php/ISI>

Tanggal-Tanggal Penting

Edisi I

Batas akhir pengiriman : February
Konfirmasi hasil review : February
Terbit Jurnal : Maret

Edisi II

Batas akhir pengiriman : Juni
Konfirmasi hasil review : Juni
Terbit Jurnal : Juli

Edisi III

Batas akhir pengiriman : Oktober
Konfirmasi hasil review : Oktober
Terbit Jurnal : November

Alamat Redaksi

Jurusan Teknik Informatika Politeknik Negeri Bengkalis

Jl. Bathin Alam, Kampus Sungai Alam Bengkalis 28751 Indonesia

Telp. (+62766) 24566/24577 Fax. (+62766) 8001000 email: jurnalinformatika@polbeng.ac.id

Jurnal Inovtek Polbeng
Seri Informatika

Halaman
1 - 590

ISSN
2527-9866



DAFTAR ISI

udul Halaman

Application of Technology Artificial Intelligence in Claim Settlement at PT. Asuransi Allianz Life Syariah Medan Branch	1–10
Implementation of Web-Based Administrative Payment Information System Using Laravel 10 Framework	11–22
Expert System for Assessing Anxiety Levels in Toxic Relationships Using the Case-Based Reasoning Method Based On The Web Implementation of the Case-Based Reasoning Method	23–35
Examining the Impact of Software Testing Practices on Software Quality in Batam Software Houses	36–48
Rice Quality Identification Built on Indonesian Food Standards Based on Electronic Nose using Naïve Bayes Algorithm	49–60
Design and Construction of a Website-Based Tourist Bus Rental System Using the Extreme Programming Method	61–72
The Implementation of AWS Cloud Technology to Enhance the Performance and Security of the Pharmacy Cashier Management System	73–86
Optimization of Variable Combinations for Household Electricity Consumption Prediction Using a Multivariate Time Series Machine Learning Approach	87–98
Implementation of a Web-Based Student and Teacher Attendance System With QR Code Integration using the RAD	99–110
Public Sentiment Analysis on Dirty Vote Movie on YouTube using Random Forest and Naïve Bayes	111–122
User Experience Evaluation of e-Puskesmas in Payakumbuh City using the User Experience Questionnaire Method	123–133
Measuring The Level of Cybersecurity Awareness of Social Media Users Among Students	134–145
Analysis of Rice Yield Prediction with Mlpregressor and Long Short-Term Memory Models	146–155
Implementation of a Teacher Development Website with Waterfall Development to Support the Teacher Promotion Process at SMP 2 Jekulo Kudus	156–167
Analysis of User Satisfaction of SAINS Pahlawan Tuanku Tambusai University Using the EUCS Method	168–179
Application of Waterfall Method in Sales System using Laravel 10 Framework in Bella Grocery Store	180–190
Analysis of Acceptance and Use of QRIS Payment Method using the UTAUT-3 Model	191–203



Redesign of User Experience in Inaportnet Using the User Experience Questionnaire Method TND User-Centered Design	204–213
Development of Automatic Waste Classification System using CNN-Based Deep Learning to Support Smart Waste Management	214–224
Risk Management of Information Security in Inaportnet Using ISO/IEC 27005:2018	225–236
Sentiment Analysis of Gojek, Grab, Maxim Applications Using Support Vector Machine Algorithm	237–248
Analysis of Service Quality on User Satisfaction Using the E-Servqual, IPA and CSI Methods	249–261
Development of a Mobile Web-Based Food and Beverage Ordering Application in a Youth Cafe With QR Code Technology	262–271
Analysis of User Satisfaction with the Mnet Plus Application Using the End-User Computing Satisfaction Method	272–283
Comparison of Naïve Bayes, Random Forest, and Logistic Regression Algorithms for Sentiment Analysis Online Gambling	284–295
Adaptive Dynamic Activity Mapping: a Novel Approach to Real-time Heatmap with YOLOv8	296–307
Sentiment Analysis of the Influence of the Korean Wave in Indonesia using the Naive Bayes Method and Support Vector Machine	308–319
Application Of K-Means Algorithm to Cluster Students' Reading Patterns in the Digital Age	320–331
Implementation of the PSO-SMOTE Method on the Naive Bayes Algorithm to Address Class Imbalance in Landslide Disaster Data	332–343
Development of Android-Based Management Information System Application for Student Final Project Services	344–354
a Sentiment Analysis of Free Meal Plans on Social Media using Naïve Bayes Algorithms	355–366
Optimization of Intrusion Detection System with Machine Learning for Detecting Distributed Attacks on Server	367–376
Analysis of Student Satisfaction in Axioo Class Program Towards LMS UPMYSKILL using Technology Acceptance Model	377–388
Implementation of the Profile Matching Method in the South Sumatra PON Basketball Player Selection Decision Support System	389–400
Design of a Web-Based Regional Food Ordering Information System at Seribu Rasa Restaurant	401–410
Decision Support System for Business Location Selection using the AHP Method Based on Android	411–421

Sentiment Analysis of Lazada Marketplace User Ratings with Naïve Bayes and Support Vector Machine Methods	422–433
Analysis of the Performance Quality of the Information System and Information Technology of the Shopee Application Using Cobit 2019	434–445
Prediction of Electricity Bill Payment Delays for Customers Using a Machine Learning Approach	446–457
Comparison of Effectiveness of Machine Learning Methods in Predicting Chemical Compound Toxicity Enhance Pharmaceutical Product Safety	458–469
Analysis of User Satisfaction on the Shopeeday Application by Using the Usability Method	470–479
Analysis Of Library Visitors' Interest Using Factor Analysis And Discriminant Analysis	480–491
Customer Data Management For Citynet Using Geolocation-Based Internet Broadband Registration Form Application	492–503
Implementation of Agile and Waterfall Methods in a Web-Based Admission System for Streamlined Registration and Communication	504–513
From Data Imbalance to Precision: SMOTE-Driven Machine Learning for Early Detection of Kidney Disease	514–525
Consumer Satisfaction Analysis at Inos Coffee & Kitchen Using the C4.5 Algorithm	526–537
Website-Based Baduy Tourism Information System Using The Software Development Life Cycle Method	538–549
Minimarket Sales Optimization: Implementation of FP-Growth dan MongoDB With Python	550–558
Classification of Elderly Health Using K-Nearest Neighbor Comparison, Naive Bayes and Decision Tree	559–570
Application of Random Forest Method for Television Malfunction Prediction	571–580
Enterprise Architecture for Enhancing Self-Service Offerings in Digital Channels Within the Telecommunication Industry	581–590