

AMANATULLAH PANDU ZENKLINOV

Tangerang, Indonesia

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INTRODUCTORY PROFILE



A lecturer at Matana University in the Statistics Department, I am committed to exposing pupils with the needed information and expertise that they so much require in the domains of statistics and data science. I come with the knowledge and skills in statistical methods that I share with learners through their investigation of data using regression, hypothesis testing, and data mining. My favorite part of teaching is the engagement of R, Python, SQL, and data visualization, which then lead to the students acquiring skills to successfully convert raw data into operative insights. Due to my in-depth interest in AI and machine learning, I keep myself informed about all the new trends in the field, making my lectures more relevant and cutting-edge. To balance the technical skills, I concentrate in aligning the students with necessary soft skills like critical thinking, problem-solving, and teamwork that will prepare them for real-life issues.

CORE COMPETENCIES AND TECHNOLOGIES

Programming Languages:	Python, R, SQL
Frameworks:	NLTK, Scikit-Learn, Opencv, Scipy, PyTorch, TensorFlow, Transformer, Langchain, Ollama, Apache Spark, Hadoop
Databases:	MongoDB, PostgreSQL, MySQL, Google BigQuery
Cloud Services:	Google Cloud Platform (GCP),
Visualization:	Tableau, Microsoft Power BI, Google Looker
Tools:	Minitab, IBM SPSS, Matlab, Eviews, GeoDa/ArcGis, Vertex AI
LLM:	Llama 3, Gemma 2, CodeGemma 2, Llama 3-Vision, MiniCPM-V, Llava
Skills:	Research, Data Science, Data Analysis, Machine Learning (ML), Deep Learning (DL), Artificial Intelligence (AI), Retrieval-Augmented Generation (RAG)

WORKING EXPERIENCE

Matana University - Tangerang, Indonesia	Aug 2024 – NOW
Lecturer in the Statistics Department - Full-Time (On-Site)	
Role and Key achievements:	
<ul style="list-style-type: none">Developed and delivered engaging, comprehensive lecture materials on data science, statistics, and machine learning.Applied cutting-edge data science techniques to create real-world case studies and projects.Guided students in mastering R and Python programming, statistical analysis, and data visualization.Guided students in mastering SQL for database management.Mentored students in research projects to improve their proficiency in AI/ML algorithms and data-driven decision-making.Courses:<ul style="list-style-type: none">Algorithm and Programming in R and PythonDatabase and Data Retrieval in SQL with PostgreSQL and non-RDBMS with MongoDBDatabase and Data Retrieval in Big Data (HDFS, Kafka, Google Query, Google Looker)Data Exploration and Data VisualizationIntroduction to Data ScienceNumerical MethodsProfession Ethic in Statistics and Data ScienceStatistical ComputationStatistical Method I	
Outlier AI - San Francisco, USA	Jun 2024 – Nov 2024
Software Engineering for AI Training Data (Python) - Independent Contractor (Remote)	
Role and Key achievements:	
<ul style="list-style-type: none">Leveraging a background in data science and machine learning to inform and enhance AI training processes.Articulating complex scientific and coding concepts clearly and engagingly to improve model training and performance.Assess the quality and efficiency of AI-generated code, ensuring it meets high standards of functionality and readability.Demonstrated proficiency in writing efficient and maintainable Python code across diverse applications, including algorithm and data structure optimization, data science analytics, and AI/ML model development.Tackle a wide range of coding challenges, from determining the better implementation of Python code to enhancing algorithm & data structure, data science & data analytics, AI/ML, and improving chatbot responses.Write robust test cases to verify the efficiency and effectiveness of the generated code, ensuring reliability and performance.Develop clear and comprehensive instructions to assist in the training and improvement of AI models.Apply RLHF (Reinforcement Learning from Human Feedback) principles to provide constructive feedback, guiding the AI towards improved code generation through iterative learning processes.	
Direktorat Jenderal Pajak RI/Indonesian Directorate General of Taxes - Central Java, Indonesia	Nov 2019 – Dec 2019
Data Analyst - Internship (Onsite)	
Role and Key achievements:	
<ul style="list-style-type: none">Conducted through data entry and verification for diverse financial revenue sources, ensuring accuracy and reliability of records.Analyzed financial revenue data to identify trends and patterns, contributing to informed decision-making processes.Supported the creation of comprehensive annual reports on financial revenue, facilitating strategic planning and accountability within the organization.	

Role and Key achievements:

- Conducted meticulous data verification and validation processes for the Party's member population data in accordance with KPUD regulations, ensuring data integrity and compliance.
- Developed and maintained a database, streamlining data management and accessibility for organizational needs.
- Played a key role in revising and rectifying inappropriate member data, enhancing the accuracy and reliability of the Party's database for electoral processes.

Badan Pusat Statistik/Indonesian Central Agency of Statistics - Kendal, Indonesia
Surveyor - Internship (Onsite)

Feb 2017 – Mar 2017

Role and Key achievements:

- Provided valuable assistance in conducting comprehensive food commodity surveys, contributing to the accurate collection of data on corn and similar commodities for BPS.
- Supported the analysis of food commodity data, aiding in the identification of trends and insights crucial for informed decision-making and policy formulation.
- Played a role in spatial surveys, particularly in maize cultivation areas, assisting in the generation of geographic data crucial for agricultural planning and development initiatives.

EDUCATION

Institut Teknologi Sepuluh Nopember - Surabaya, Indonesia
Master's Degree of Statistics, GPA: 3.46/4.00

Jan 2022 – Apr 2024

- Demonstrated proficiency in conducting research by devising an innovative approach for scaling a previously thought non-scalable community detection algorithm, [published](#) in a peer-reviewed journal.
- Excelled in academic project, demonstrating skills in algorithm design, data structures, and machine learning.
- Completed highly demanding coursework in Statistical Process Control, Econometrics, Inference Statistics, Meta Analysis, Data Analysis, and Intensive Computational Statistics.

Universitas Muhammadiyah - Semarang, Indonesia
Bachelor's Degree of Statistics, GPA: 3.78/4.00

Sep 2019 – May 2021

- Actively participated in statistical seminars, workshops, and conferences, enhancing both theoretical knowledge and practical skills in the field, with a focus on Python and R.
- Excelled in academic projects, demonstrating skills in time series analysis and exploratory data analysis, including techniques requiring graphical visualization for insightful data interpretation and presentation.
- Completed highly demanding coursework in Regression Analysis, Multivariate Analysis, Time Series Analysis, Categorical Data Analysis, and Financial Statistics.

Akademi Statistika Muhammadiyah Semarang - Semarang, Indonesia
Diploma III or Associate's Degree of Statistics, GPA: 3.74/4.00

Sep 2016 – Sep 2019

- Actively participated in student organizations and volunteering initiatives, demonstrating leadership skills and a commitment to community engagement through statistical applications.
- Excelled in academic project, demonstrating skills in data mining, data structures, and their implementation using SQL, including proficient querying, database design, and optimization techniques for efficient data retrieval and manipulation.
- Completed highly demanding coursework in Calculus, Linear Algebra, Inventory Statistics, and Data Mining.

ORGANIZATION EXPERIENCE

Ikatan Himpunan Mahasiswa Statistika Indonesia/Association of Indonesian Statistics Students
Member, Zone 3 Central Java and Yogyakarta

Jan 2018 – Dec 2018

- Actively engage in various events, meetings, and initiatives organized by the association to contribute to its objectives and foster a sense of community among members, e.g., attending workshops or seminars and participating in social gatherings.
- Build relationships with fellow members to exchange ideas, share experiences, and collaborate on projects related to statistics and academic pursuits.
- Advocating for the interests and concerns of members, and promoting the values and mission of the organization within the statistical community

VOLUNTEERING

4th Indonesia Statistics Conference and Olympiad (ISCO)
Event Leader of Indonesia Olympiad of Statistics/IOS (Sub-event ISCO)

May 2018 – Sep 2018

- Coordinate the planning and execution of the Indonesia Olympiad of Statistics (sub-event ISCO), including scheduling activities, allocating resources, and overseeing logistics to ensure the smooth running of the event.
- Manage a team of volunteers or committee members involved in organizing the sub-event, delegating tasks, providing guidance, and fostering collaboration to achieve the event's objectives effectively.
- Serve as the primary liaison between the sub-event team, participants, sponsors, and other stakeholders, communicating updates, addressing inquiries or concerns, and maintaining positive relationships to enhance the overall experience and success of the event.

PUBLISHED RESEARCH AND PAPER

2024	Intrusion Detection Systems (IDSs) using Multivariate Control Chart Hotelling’s T2 with Dimensional Reduction of Factorial Analysis of Mixed Data (FAMD) and Autoencoder [Link] Key achievements: <ul style="list-style-type: none">Employed data-driven approaches to identify cybersecurity threats and detect fraudulent activities.Enhanced Detection Accuracy with Dimensionality Reduction and Effective Handling of Mixed Data Types.
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TEACHING EXPERIENCE

Akademi Statistika Muhammadiyah Semarang		
• Assistant Lecturer in Statistical Computation Coursework		Jan 2018 – Mar 2018
• Assistant Lecturer in Calculus Coursework		Sep 2017 – Dec 2017

COURSE AND CERTIFICATIONS

• Webinar Akuntansi dan Matematika 2024	UGM	Dec 2024
• Data-Driven Decision Making: Promoting the Use of Statistics in Making Informed Decisions Across Different Sectors Such as Economy, Education, Healthcare, and Governance	IHMSI	Sep 2024
• English Level C1 Advanced according to the Common European Framework of Reference (CEFR)	EF SET	Jul 2024
• Introduction to Machine Learning on AWS	AWS	Jul 2024
• GenAI Chatbots: Create and Deploy OpenAI-Powered Chatbots	Coursera	Jun 2024
• Generative AI with Vertex AI: Build a customer chatbot	Coursera	Jun 2024
• Google Cloud Big Data and Machine Learning Fundamentals	Google	May 2024
• Working with Big Data	Coursera	May 2024
• IBM Machine Learning Professional Certificate	IBM	Apr 2024
• Data Analysis with Python	IBM	Mar 2024
• Deep Learning with Python	IBM	Mar 2024
• Machine Learning with Python	IBM	Mar 2024
• Prompt Engineering	IBM	Mar 2024
• Python for Data Science	IBM	Mar 2024
• International Conference Presenter of 13 th ISNPINSA	UNDIP	Nov 2023
• Researcher and Research Student Enrichment Program	ITS	Nov 2023