# AMANATULLAH PANDU ZENKLINOV

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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.

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## CORE COMPETENCIES AND TECHNOLOGIES

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| **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, Big Data Analysis, Machine Learning (ML), Deep Learning (DL), Artificial Intelligence (AI), Retrieval-Augmented Generation (RAG) |

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## WORKING EXPERIENCE

**Matana University - Tangerang, Indonesia**

**Head of the Statistics Undergraduate Programme - Full-Time (On-Site)**     *Mar 2025 – NOW*

**Role and Key achievements:**

- Create, update, and ensure the curriculum of undergraduate statistics is aligned with academic standards and industry requirements.
- Conduct classes, counsel students regarding educational and career goals, and guide thesis or research projects.
- Execute program-related tasks, such as the scheduling of events, the preparing of budgets, the execution of policies, and the maintenance of the program's accreditation.
- Recruit, evaluate, and care for study programme members in order to build up the team and promote the principles of professionalism and cooperation.
- Create partnerships with businesses, involve the alumni in the project, and make the internships and applications for use in the real world known.
- Promote undergraduate research, bring departments together on the topic for a single project, and have study programme members and students take part in projects at the cutting edge of discovery.
- Visualize long-term strategies for the growth of the program, distribution of resources, and making it compatible with other statistics education programs.
- Come up with the best ways to offer assistance to students and create an inclusive environment and take care of the students' welfare and retention through counseling and support systems implementation.

**Quality Assurance Committee of Statistics Department - Full-Time (On-Site)**     *Jan 2025 – NOW*

**Role and Key achievements:**

- Prepare the lecture schedule each semester and develop the curriculum along with supporting documents.
- Conduct monitoring of academic activities, perform evaluations, and implement follow-up actions for continuous academic quality enhancement.
- Submit task reports at the end of each semester and maintain a database for accreditation purposes.

**Lecturer of the Statistics Undergraduate Programme - Full-Time (On-Site)**     *Aug 2024 – NOW*

**Role and Key achievements:**

- 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:
  - Algorithm and Programming in R and Python
  - Database and Data Retrieval in SQL with PostgreSQL and non-RDBMS with MongoDB
  - Database and Data Retrieval in Big Data (HDFS, Kafka, Google Query, Google Looker)
  - Data Exploration and Data Visualization
  - Introduction to Data Science
  - Numerical Methods
  - Profession Ethic in Statistics and Data Science
  - Statistical Computation

**Outlier AI - San Francisco, USA**
  **Software Engineering for AI Training Data (Python) - Independent Contractor (Remote)**        *Jun 2024 – Nov 2024*
    **Role and Key achievements:**
- 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**
  **Data Analyst - Internship (Onsite)**        *Nov 2019 – Dec 2019*
    **Role and Key achievements:**
- 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.

**Partai Amanat Nasional - Central Java, Indonesia**
  **Data Warehouse Administrator - Freelance (Onsite)**        *May 2017 – Oct 2017*
    **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**        *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**        *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**        *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*

- Activelyengage 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

**Google Scholar**: Amanatullah Pandu Zenklinov

2024 **Intrusion Detection Systems (IDSs) using Multivariate Control Chart Hotelling's T2 with Dimensional Reduction of Factorial Analysis of Mixed Data (FAMD) and Autoencoder**

**Key achievements:**

- 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.

## COURSE AND CERTIFICATIONS

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| 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 13th ISNPINSA | **UNDIP** | Nov 2023 |
| Researcher and Research Student Enrichment Program | **ITS** | Nov 2023 |