

# Ahmad Hilmi

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## ABOUT ME

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I believe that behind complex data and algorithms lies a wealth of untold stories. With an educational background in the Statistics program, I aim to leverage advanced analytical techniques and machine learning models to uncover hidden patterns, derive actionable insights, and develop data-driven solutions to solve real-world problems.

## PROFESSIONAL EXPERIENCE

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### Public Relations and Information Office, Universitas Negeri Jakarta – Jakarta, Indonesia (November 2023 – November 2024)

Intern Staff – [Public Relations Related Portfolio](#)

- Provided public services and information about Universitas Negeri Jakarta.
- Documented events at Universitas Negeri Jakarta.
- Created informative and engaging content on Universitas Negeri Jakarta's social media.
- Acted as MC, escort, and speaker at various events related to Universitas Negeri Jakarta, both on and off-campus.

### Nurul Fikri – Jakarta, Indonesia (January 2024 – May 2024)

Freelance Mathematics Tutor

- Conducted mathematics tutoring sessions for elementary and middle school students.
- Assisted students in understanding and solving mathematical problems.
- Prepared students for exams and improved their academic performance in mathematics.

## EDUCATION

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### State University of Jakarta (August 2021 – present)

Bachelor of Statistics

- Learning the fundamentals of statistics, statistical methods, data processing and analysis using software, and database management.

## ORGANIZATIONAL

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### Duta Universitas Negeri Jakarta (November 2023 – November 2024)

University Ambassador

- Represented Universitas Negeri Jakarta in various events and activities.
- Engaged in promotional activities to enhance the university's image.
- Achieved 3rd Runner-Up in Malam Grand Final dan Penganugerahan Duta Universitas Negeri Jakarta 2023.

## PROJECT

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### Data Visualization: Netflix Dataset (January 2025)

[Project Notebook](#)

- Provide a detailed exploration of content distribution between movies and TV shows on Netflix.
- Conduct geographic distribution analysis to understand content types across top countries.
- Perform genre correlation studies between different genres.
- Present findings from the word cloud analysis to identify popular or frequently occurring titles.

## **Time Series Forecasting: IDR Exchange Rate (January 2025)**

[Project Notebook](#)

- Provide a detailed exploration of exchange rate trends (USD to IDR) using historical data.
- Analyze seasonality and cyclical patterns in the exchange rate using box plots to observe variations by year, month, and quarter.
- Conduct feature importance analysis to identify the most influential factors in the model.
- Implement predictive modeling using the XGBoost algorithm to forecast future exchange rates.
- Evaluate model accuracy using the Root Mean Square Error (RMSE) metric.
- Perform error analysis to understand and address prediction errors.

## **Twitter (X) Sentiment Analysis: PPN 12% (January 2025)**

[Project Notebook](#)

- Use Python for data processing and sentiment analysis, leveraging libraries such as pandas, transformers, nltk, tqdm, and scipy.
- Scraping Twitter (X) data using tweet-harvest from Node.js package.
- Utilize Google Colab as the primary coding platform.
- Implement sentiment analysis using VADER and RoBERTa models to derive insights from the text data.
- Highlight key insights derived from the analysis.

## **Hilmi's Portfolio Website (January 2025)**

[Live Demo](#)

- Create a user-friendly and intuitive interface suitable for both web and mobile platforms.
- Utilize responsive design principles to ensure the website is accessible on various devices.
- Implement HTML, CSS, and JavaScript programming language.
- Include links to my contact information, CV, and detailed descriptions of other projects.

## **Web-Based Application for Experimental Design (May 2023 – June 2023)**

[Live Demo](#)

- Design and develop a user-friendly and intuitive interface for the application.
- Set up a server-side environment using the R programming language.
- Develop algorithms and logic to guide users through the process of creating experimental designs.
- Publishing the web-based experimental design application using the Shinyapps.io hosting service.

## **ACHIEVEMENT**

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### **Finalist of the Essay Competition (July 2023)**

UNJ Smart Statistic (SMATIC) 4.0

- Write an essay of a minimum of 1200 words with the theme: Statistics as the Key to Optimizing the Integrated Data Revolution in 5.0 Era.

## **ADDITIONALS**

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**Knowledge:** Data Analysis, Sentiment Analysis, Time Series Forecasting, Data Visualization, Full-Stack Development, Database Management.

**Applications:** Google Sheets, Google Docs, Canva, Tableau, Minitab, SPSS.

**Programming Languages:** R, Python, SQL, HTML, CSS, JavaScript, Node.js.

**Programming Platforms:** R Studio, VS Code, MySQL Workbench, Google Colab, GitHub.

**Skills:** Web Development, Data Scraping, Interactive Data Visualization, Predictive Modeling, Public Services, Social Media Content Creation, Podcasting.