

# TEGAR AHMAD ARSY

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## PROFILE

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A Mathematics graduate from Sebelas Maret University with a strong interest in Data Analytics. My academic background has given me a strong foundation in mathematical concepts, along with expertise in various data analysis tools and techniques. Through my experiences, I have enhanced my data analysis skills. I also have skills in Public Speaking, Problem Solving, and Critical Thinking. which have helped me lead teams and communicate complex information effectively.

## EDUCATION

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**Universitas Sebelas Maret – Surakarta, Central Java** 2020 – 2024  
Bachelor of Mathematics, Faculty of Mathematics and Natural Sciences GPA : 3.53 (Cumlaude)

- Undergraduate Thesis Title: Analysis of the Contribution of Factors in Predicting Cryptocurrency Prices Using Machine Learning and Shapley Value Approach.

## EXPERIENCE

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**PT. SCG Readymix Indonesia** February 2025 – Present  
*Data Analyst*

- Analyzing data related to material prices, financial performance, production performance, material usage, and shipping costs from each PT SCG Readymix Indonesia plant.
- Visualizing data to simplify insights for management decision making.
- Developing a database to store production data from each PT SCG Readymix Indonesia plant.

**Bangkit Academy 2023 By Google, GoTo, Traveloka** August 2023 – January 2024  
*Machine Learning Learning Path*

- Utilized frameworks like TensorFlow, Keras, or PyTorch for model development.
- Applied optimization techniques to train and evaluate the model, ensuring high accuracy and performance.
- Processed datasets using preprocessing and augmentation techniques to improve model accuracy.
- Analyzed data to ensure successful model implementation in real-world applications.

**ZOORAGAN.ID** February 2022 – August 2022  
*Division Information and technology*

- Designed and managed the database for the ZOORAGAN website, ensuring efficient data storage and retrieval.
- Collaborate with the team to address web-related needs while ensuring projects stay on track and meet deadlines.
- develop websites and contribute to UI/UX design to enhance user experience.

**Hacktiv8: Python For Data Science** February 2022 – August 2022  
*Python For Data Science*

- Querying DataFrame structures for cleaning and processing datasets
- Developing ML features that meet data analysis needs
- Implementing Supervised and Unsupervised Learning to solve real-world cases
- Able to deploy created ML models

## PROJECTS

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### **Forecasting Bitcoin Price Using Machine Learning and SHAP Interaction Value**

*September 2024*

- Developed Bitcoin price forecasting models using XGBoost, CatBoost, Random Forest, and LightGBM, analyzing features like opening price, closing price, and trading volume.
- Applied SHAP interaction values to interpret feature impacts and relationships, enhancing model transparency.
- Delivered insights to support informed investment decisions in the cryptocurrency market.

### **Carbon Tax Judge Analysis in Indonesia**

*November 2023*

- Conducted clustering analysis on respondents' views on Indonesia's carbon tax, identifying four distinct perspectives.
- Found consensus on its effectiveness in reducing emissions and benefiting the environment, health, and infrastructure.
- Highlighted concerns on public outreach, system improvements, tax incentives, and sector-specific impacts.

## ORGANIZATIONAL EXPERIENCE

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### **LSO MATHLETE UNS – Surakarta, Central Java**

*January 2022 – November 2022*

#### *President*

- Coordinating internal divisions
- Managing all needs of the Mathlete Student Organization
- Developing activities for the Mathlete Student Organization

### **DPO HIMATIKA 2022 – Surakarta, Central Java**

*December 2022 – December 2023*

#### *Secretary*

- Coordinating various organizational activities and events.
- Monitoring the progress of projects and initiatives within the organization.
- Analyzing the performance and impact of HIMATIKA's activities.
- Providing guidance and support to team members in executing organizational goals. .

## ADDITIONAL INFORMATION

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**Software** : SQL, Python, Power BI, Tableau, R, SPSS, Github, VSCode, Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Google Spreadsheet, Google Docs.

### **Certifications and Trainings :**

- Google Data Analytics (Coursera)
- IBM Data Science Professional Certificate (IBM)
- Machine Learning Specialization (Coursera)
- Mathematics For Data Science and Machine Learning (Coursera)
- SQL : From Zero to Hero (Udemy)
- DeepLearning.AI TensorFlow Developer (Coursera)
- TensorFlow : Data and Deployment (Coursera)

### **Honors & Awards :**

- Accepted and Funded 'Program Hibah MBKM UNS 2022'
- Published a research paper titled "*Forecasting Bitcoin Price Using Machine Learning and SHAP Interaction Value*" in AIP Conference Proceedings, a Scopus-indexed journal.