Wahyu Ikbal Maulana

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SUMMARY

Results-oriented data scientist with 2+ years of experience in Python, R, and Machine learning. Proficient in deploying AI models and collaborating on web application integration. Passionate about applying data-driven solutions to real-world problems. Actively engaged in the academic community, participating in various competitions and projects to enhance technical skills and teamwork abilities.

EXPERIENCE

Head of AI Division   **Surabaya**
JANAKA PENS   *November 2024 – Present*
- Led and managed projects by guiding a team of AI engineers, backend, and frontend developers, providing mentorship and ensuring successful execution of project objectives.
- Developed and implemented innovative AI solutions for entertainment projects to enhance user experiences and support the community.

Data Analyst Staff   **Remote**
PT. Media Karya Prestige Internasional (Kanotaria)   *July 2024 – December 2024*
- Processed and analyzed datasets to create comprehensive company reports, leading to improved decision-making.
- Created a visualization dashboard that contributed to an improvement in cross-team efficiency and overall productivity.

Student AI Mentorship   **Surabaya**
KORIKA ID   *January 2024 – March 2024*
- Selected as one of 12 teams participating in a mentorship program focused on building generative AI projects over 3 months.
- Collaborated with a team of 5 to develop and refine a Generative AI model using multiple large language models.
- Conducted in-depth research on Large Language Models (LLMs) and Natural Language Processing (NLP) to understand their capabilities, limitations, and best practices for application in generative AI.

Infographic Designer   **Remote**
UI UX Designer   *August 2022 – December 2022*
- Designed and created high-quality infographics to effectively communicate key data and insights using various design tools and software.
- Applied best practices in data visualization to enhance clarity, impact, and overall presentation of complex information.

PROJECT

Chatbot Kelurahan Keputih | Banner
- Developed a chatbot for the Keputih village administration, enhancing communication and providing automated responses for community services.
- Integrated natural language processing (NLP) to ensure efficient and accurate handling of user queries.

Dashboard Analitik Pada Komoditas Pertanian Menggunakan Data Mining dan Deep learning | Banner
- Collected and processed data from various agricultural sources, applying data mining techniques to extract valuable insights.
- Designed and implemented ETL (Extract, Transform, Load) processes to prepare data for advanced analytics

Stuntron: Deteksi stunting dengan Generative Ai | Github
- Built a Python-based Streamlit app with authentication, PostgreSQL integration, and Generative AI for stunting detection, prevention, and nutritional recommendations.
- Utilized LLaMA, OpenAI API, and machine learning algorithms, supported by tools like Pandas and Scikit-learn, to enhance data analysis and prediction accuracy.

Kumpulin: Saas Project Startup with Ai and ML Backend | Github
- Developing an innovative app using Next.js and PostgreSQL, integrating Machine Learning and Generative AI to assist teachers in grading assignments.
- Streamlines task submissions for students while providing automated grading suggestions to enhance efficiency.

Malware Detection using Ensemble Method | Github
- Built a malware detection system using traditional machine learning with multiple ensemble methods to improve classification accuracy and detect malicious software.

Dashboard system using Flask and Airflow | Github
- Developed a dashboard system to visualize and manage ETL (Extract, Transform, Load) workflows using Flask and Apache Airflow.

Forecasting Indonesia Renewable Energy Contribution to Electricity Generation Using ARIMA Method | Github
- Implemented ARIMA modeling, including data preparation, model fitting, and forecasting.
- Developed a detailed process flowchart poster to visually represent the ARIMA model workflow.
- Authored a research paper and produced an explanatory video to illustrate the findings of the ARIMA model.

SKILLS

Programming & Tools: Python, R, Next JS, PostgreSQL, MySQL, Tailwind CSS, Typescript, Git, GitHub, Drizzle ORM, Prisma, Docker, Trello, Notion, Supabase,

Data science: Data science pipeline (cleansing, wrangling, visualization, Modeling, interpretation), Statistics, Time series, Hypothesis testing, Tableau, Power BI, Excel,Grafana, Mage ai, Apache Airflow, Pytorch, Flask, Apache Spark

Management Research: Communication, Collaboration, Problem Solving, Critical Thinking, Adaptability, Time Management, Strategic Thinking, Empathy, Resilience, flexibility and agility

EDUCATION

Undergraduate in Applied Data Science   **Surabaya**
Politeknik Elektronika Negeri Surabay, GPA 3.61/4.00   *Aug 2023– Aug 2027 (Expected)*

ORGANIZATIONAL INVOLVEMENT & VOLUNTEER WORK

Learning materials division, Creative division   **Surabaya**
Pemandu LKMM PENS   *August 2024 – Present*
- Creating and conducting research on financial literacy materials and 11 other materials, with reference to the Kemendikbud guidelines, and providing applicable self-management training to more than 350 students,
- Facilitated self-management consultation sessions for 30+ student groups or 100+ individual students, providing practical guidance on self-management and personal development.

Data Science Content Writer   **Surabaya**
Data Wizard   *October 2024 - December 2024*
- Created educational content and engaging data science memes on Instagram to simplify complex concepts and inspire interest in data science for a broad audience.

Blog Writer   **Surabaya**
Himpunan Mahasiswa Teknik Informatika PENS   *September 2024 - Present*
- Authored and published 5+ educational blogs and articles on data science, machine learning, and artificial intelligence on Medium, reaching a wide audience and enhancing technical knowledge among peers.

CERTIFICATE & COURSE

- [AI Engineer Bootcamp, 365 Careers, 2024](#)
- [The Data Literacy Course: Learn How to Work With Data, 365 Careers, 2024](#)
- [Brain Training Course - Neuroplasticity, Udemy, 2024](#)
- [Writing Course, Udemy, 2024](#)
- [Python and R for Scientific Research Data Analysis, Udemy, 2024](#)
- [Data Exploration and Visualization using Tableau, Power BI, and Grafana, PENS, 2024](#)
- [Intermediate Deep Learning with Pytorch, Datacamp, 2024](#)
- [Belajar Machine Learning Untuk Pemula, Dicoding Indonesia, 2023](#)
- [Team Collaboration in the Technology Industry, Future skills Indonesia, 2023](#)
- [IT Literacy Training, UICI Research & Community Service Institute, 2022](#)
- [Data Science: Python for Data Analysis Bootcamp, Udemy 2022](#)
- [Python bootcamp, Udemy, 2021](#)