BIMA ABIZARD NURQOLBI

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Semarang, Jawa Tengah, Indonesia

A Computer Engineering graduate from Diponegoro University with a strong foundation in machine learning, data analysis, and AI-powered system development. As a Bangkit Academy 2024 graduate in the Machine Learning path, I have hands-on experience building and deploying deep learning models using TensorFlow and cloud services like Google Cloud Run and Cloud Storage. My portfolio includes real-world projects such as burn degree classification, smart recipe generation, and CSIRT web systems. With additional experience in full-stack development, API integration, and cloud-based deployment, I bring a multidisciplinary approach to solving technical challenges. I am seeking opportunities to grow in AI engineering or data-driven product development environments.

Skills

- **Languages:** Python, JavaScript, HTML/CSS, SQL, C/C++
- **Machine Learning & Data:** TensorFlow, Scikit-learn, NumPy, Pandas, OpenCV, Label Studio, Streamlit, Exploratory Data Analysis, Model Evaluation (Precision, Recall, F1-Score)
- **AI Deployment & Cloud:** Google Cloud Platform (Cloud Run, Cloud Storage, App Engine), Flask API, RESTful APIs, Postman, Docker (basic), CI/CD (GitHub Actions)
- **Web & Full-Stack Development:** Flask, Bootstrap, Jinja2, Firebase (Authentication, Firestore), Git, MVC/MVT Architecture, Responsive Web Design
- **Tools & Collaboration:** Git, GitHub, VS Code, Colab, Notion, Trello, Figma
- **Soft Skills:** Problem-solving, Critical Thinking, Adaptability, Team Collaboration, Research & Documentation

Education Level

Universitas Diponegoro - Semarang, Jawa Tengah   Aug 2021 –Jun 2025

Undergraduate Computer Engineering, 3.57/4.00

Final Project: *"Burn Severity Classification Using Deep Learning: A Comparative Study of VGG16 and EfficientNetB3 Pretrained Models"*
- Conducted an in-depth research project focused on classifying burn injuries (1st, 2nd, 3rd degree) from medical images using convolutional neural networks.
- Compared the performance of two pretrained models — VGG16 and EfficientNetB3 — by evaluating their precision, recall, F1-score, and overall accuracy on a curated dataset of burn images.
- Fine-tuned both models using transfer learning techniques in TensorFlow to optimize performance for the specific domain.
- Performed data preprocessing, augmentation, and validation to ensure model robustness and generalizability.
- Demonstrated that EfficientNetB3 achieved higher accuracy while VGG16 exhibited more consistent performance across all classes, providing valuable insights into model selection trade-offs in real-world medical AI applications.

Professional Experiences

Perum Perumnas - Jakarta, Indonesia   Sep 2023 - Nov 2023

Software Development Intern
- Collaborated with UI/UX designers to translate wireframes and design mockups into high-quality code.
- Developed reusable components using HTML, CSS (Tailwind/Bootstrap), and JavaScript frameworks (e.g., React.js or Vue.js).
- Assisted in debugging and optimizing front-end performance for better speed and scalability.
- Participated in code reviews and team meetings using version control (Git) and agile methodologies.
- Integrated APIs and backend services into the frontend architecture.
- Ensured cross-browser compatibility and responsive design across devices.

Intensive Development Courses Experience

Bangkit Academy led by Google, Goto, and Traveloka – Indonesia 🔗   Sep 2024 - Des 2024

Machine Learning Cohort
- Bangkit is a career readiness program initiated by Google in collaboration with Indonesia's Ministry of Education, Culture, Research, and Technology. It is designed to equip university students with in-demand tech skills and soft skills to accelerate their careers in the digital industry.
- As a Machine Learning cohort member, I completed over 900 hours of rigorous training covering machine learning fundamentals, deep learning, data processing, and deployment using TensorFlow. The program also emphasized practical problem-solving through a capstone project aligned with Sustainable Development Goals (SDGs).

Organisational Experience

HIMASKOM – Himpunan Mahasiswa Teknik Komputer - Semarang, Jawa Tengah — Dec 2022 - Dec 2024

Head of Division PMO

HIMASKOM is an student organizations that serves as the executive body representing computer engineering students.

- Coordinated cross-departmental projects within HIMASKOM by implementing structured workflows, tracking progress, and optimizing resource allocation to improve project delivery and team collaboration.

BEM FT Undip - Semarang, Jawa Tengah — Feb 2022 - Dec 2023

Staff & Head Division of Media Development Research

BEM FT Undip is a student organization that serves as the executive body representing engineering students.

- Led the Media Development and Research Division of the Faculty of Engineering Student Executive Board, directing content strategy, data analysis, and publication efforts to support organizational communication and advocacy.

- Conducted media performance reviews and social media analytics to evaluate audience engagement and optimize digital outreach initiatives based on data-driven insights.

- Oversaw the creation of visual and written content, collaborating with designers and writers to ensure alignment with the organization's values, tone, and strategic goals.

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Licenses & Certifications

- Advanced Learning Algorithms (DeepLearning.AI, Coursera, Stanford CPD, UVM, 2024)
- Machine Learning Specialization (DeepLearning.AI, Coursera, Stanford CPD, UVM, 2024)
- DeepLearning.AI TensorFlow Developer Specialization (DeepLearning.AI, 2024)
- Data Pipelines with TensorFlow Data Services (DeepLearning.AI, 2024)
- Natural Language Processing in TensorFlow (DeepLearning.AI, 2024)
- Convolutional Neural Networks in TensorFlow (DeepLearning.AI, 2024)
- Advanced Computer Vision with TensorFlow (DeepLearning.AI, 2024)
- Build Basic Generative Adversarial Networks (GANs) (DeepLearning.AI, 2024)
- Custom Models, Layers, and Loss Functions with TensorFlow (DeepLearning.AI, 2024)
- CCNA: Introduction to Networks (Cisco, 2023)
- CCNA: Switching, Routing and Wireless Essentials (Cisco, 2023)
- Oracle Database Foundation & Design (Oracle Academy, 2023)