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SUMMARY

Aspiring Data Scientist with 2 years of experience in machine learning and data analysis, honed through a comprehensive 900+ hour program at Bangkit Academy led by industry giants like Google. Developed high-accuracy models, achieving classification accuracy of up to 90% on real-world datasets. Seeking a role in Data Science to leverage strong expertise in AI engineering and TensorFlow to drive data-driven solutions and social impact.

EXPERIENCE

Microsoft Data Engineer Cohort

MariBelajar **February 2024 - June 2024**

MariBelajar is an educational platform offering various courses and learning resources, including E-Certificates and video lessons.

- Completed a 5-month intensive training in cloud-based data engineering with Microsoft Azure, covering key services like Azure Data Factory, Azure Databricks, and Azure Synapse Analytics.
- Designed and deployed scalable data pipelines, processing large datasets efficiently using ETL workflows in real-world project simulations.
- Collaborated in agile teams with peers and mentors to solve data-driven business problems, simulating professional data engineering environments.
- Gained hands-on experience with version control (Git), SQL-based data transformations, and pipeline automation, strengthening job-ready technical skills.

Machine Learning Cohort

Bangkit Academy led by Google, GoTo, & Traveloka **August 2023 - December 2023**

Bangkit Academy is a tech career program by Google, GoTo, and Traveloka for Indonesian students.

- Completed Bangkit Academy's Machine Learning learning path, a 900+ hour training program led by Google, GoTo, and Traveloka under the Kampus Merdeka initiative.
- Gained in-depth knowledge of supervised and unsupervised learning, deep learning, computer vision, and TensorFlow-based model development.
- Collaborated with a multidisciplinary team on a capstone project to solve a social impact problem using ML, following end-to-end ML development practices.
- Strengthened soft skills through weekly mentoring sessions and training in agile teamwork, English for the workplace, and career readiness.

PROJECTS

Chatbot Assistant for University

Personal Project ·github.com/Bagusdevaa/Chatbot-for-Udayana-University **April 2025 - May 2025**

- **Created an advanced AI chatbot assistant for Udayana University** using Retrieval Augmented Generation (RAG) technology, Flask web framework, and LangChain, providing context-aware information on university programs, policies, and resources.
- **Decreased average student support response time** from 24 hours to under 2 minutes for standard questions, significantly improving support efficiency.
- Enabled prospective students to easily access critical information, streamlining the admissions process.
- **Developed a centralized knowledge base**, enhancing information consistency across all university departments by 40%.

Chatbot Assistant with PDF

Personal Project · github.com/Bagusdevaa/Chat-with-PDF **March 2025 - April 2025**

- **Developed a Python application that enables users to interact with multiple PDF** documents through natural language queries, enhancing accessibility and ease of use.
- **Applied Retrieval Augmented Generation (RAG)** technology to improve document analysis, providing quick and accurate information retrieval from PDFs with an average response time of under 3 seconds.
- **Streamlined the process of extracting information from large documents**, reducing manual effort by 50% and improving workflow efficiency for users.

Dashboard Report with Streamlit

Personal Project · github.com/Bagusdevaa/Apple-Classfication-using-Harralick-and-KNN **February 2025 - March 2025**

- **Developed an intelligent classification system** that accurately detects 5 different levels of apple ripeness (20%, 40%, 60%, 80%, 100%) using computer vision and machine learning techniques.
- **Achieved 96% classification accuracy** by implementing an optimized KNN algorithm with fine-tuned parameters, enabling precise fruit quality assessment without human subjectivity.
- **Built an interactive Streamlit dashboard** with real-time parameter adjustment capabilities, confusion matrix visualization, and nearest neighbor exploration to provide actionable insights for stakeholders.
- **Created sophisticated data visualizations** (PCA-based neighbor visualization, radar charts, parallel coordinates) that transform complex machine learning concepts into intuitive, business-friendly insights.

Sentiments-Analysis Internship Program MSIB

Personal Project · github.com/Bagusdevaa/Sentiments-Analysis-MagangMSIB **May 2024 - June 2024**

- Conducted sentiment analysis on 5,000+ tweets related to MSIB internship programs (2020–2024) using Python.
- Achieved 90% classification accuracy in sentiment classification, demonstrating the effectiveness of the Python-based model in handling social media text data.
- Uncovered trends in public perception to support improvement of future program outreach and communication.

EDUCATION

Informatics Bachelor's Degree
Minor in Smart Computing • Udayana University • 2025 • GPA 3.95

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals
Microsoft • 2024
- Gained foundational understanding of Microsoft Azure cloud services, including compute, storage, networking, and security solutions.
- Learned key concepts of cloud computing, such as cloud models (IaaS, PaaS, SaaS) and Azure pricing, helping in cost optimization and resource management.
- Developed a strong understanding of Azure governance and compliance, essential for building secure and scalable cloud applications.

Microsoft Certified: Azure Data Fundamentals
Microsoft • 2024
- Gained foundational knowledge of core Azure data services, including Azure SQL Database, Cosmos DB, and Azure Blob Storage.
- Learned key data concepts such as data warehousing, data modeling, and ETL processes, essential for managing and analyzing large datasets in the cloud.
- Gained practical skills in querying and managing data on Azure, providing a solid foundation for building and deploying cloud-based data solutions.

TensorFlow: Data and Deployment
Coursera • 2023
- Gained hands-on experience in preparing, transforming, and managing real-world datasets using TensorFlow Data API and tf.data pipelines.
- Learned to deploy ML models in production using TensorFlow Serving, TensorFlow Lite, and TensorFlow.js, enabling cross-platform deployment on web, mobile, and edge devices.
- Strengthened understanding of end-to-end ML workflows, from data preprocessing to scalable model serving, supporting efficient real-world AI system development.

DeepLearning.AI TensorFlow Developer
Coursera • 2023
- Built, trained, and deployed deep learning models using TensorFlow and Keras, including CNNs for image classification and NLP models for text processing.
- Gained practical skills in handling real-world ML tasks such as time series forecasting, image recognition, and sentiment analysis using custom neural networks.
- Learned how to optimize model performance and generalization through techniques like regularization, callbacks, and hyperparameter tuning in TensorFlow workflows.

Machine Learning Specialization
Coursera • 2023
- Gained hands-on experience in building and training deep learning models using TensorFlow, which is directly applicable to AI-related projects I've developed.
- trengthened understanding of neural networks, CNNs, RNNs, and deployment techniques, supporting my work in building intelligent systems such as chatbots and recommendation engines.
- Enhanced ability to implement scalable machine learning solutions, making me better prepared for real-world AI development challenges.

Mathematic for Machine Learning
Coursera • 2023
- Strengthened core understanding of linear algebra, calculus, and probability, which are essential for developing and optimizing machine learning models.
- Bridged the gap between mathematical theory and practical implementation in data science workflows, improving model interpretability and performance.
- Gained the ability to analyze and troubleshoot ML algorithms by understanding the mathematical foundations behind gradient descent, loss functions, and model behavior.

SKILLS

Data Engineer: SQL, MongoDB, Apache Spark, Airflow, Hadoop.
Data Analyst: SQL, PowerBI, Python, Streamlit, Jupyter.
Data Scientist: Python, Scikit-learn, Tensorflow, Pandas, Numpy, Jupyter.
Machine Learning Engineer: Tensorflow, Scikit-learn, MLflow, Docker, Kubernetes.
AI Engineer: Transformer, OpenAI API, Tensorflow, Pytorch, LangChain, Microsoft Azure, Flask, FastAPI.