# Risky Agung Dwi Putranto

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## **Work Experience**

### Algorithm Engineer ByteDance Feb 2024—Aug 2024

Jakarta, Indonesia

ByteDance is a Chinese internet technology company known for developing the video-sharing apps TikTok and Douyin and e-commerce TikTokShop.

- Completed the integration of hundreds of thousands of product attributes in less than one semester by incorporating deep learning for attribute matching and search, reducing manual verification by 15%.
- Developed standardized procedures and optimized prompts for multimodal and multilingual product attribute extraction using large models in five different languages.

Senior Data Scientist Tokopedia Jul 2019-Aug 2024

Jakarta, Indonesia

Tokopedia is an Indonesian e-commerce company.

- Managed the end-to-end development, maintenance, and optimization of an automated pipeline for product categorization
  models. Integrated active learning to boost deep learning model accuracy to over 95% and reduce data requirements by 70%,
  leading to a 1.3x increase in revenue.
- Developed and deployed cutting-edge BERT-based product attribute extraction models for five parent categories, achieving over
   90% accuracy and efficiently processing millions of products.
- Designed and launched a production-ready multimodal sensitive product and content classifier with over 90% accuracy, resulting in zero ticket complaints during the holy month of Ramadan.
- Led a team of five in developing and launching in-house platforms for active learning and large language models used by multiple teams, resulting in a 2x increase in productivity.

Software Engineer Intern GDP Labs Jul 2018–Aug 2018

Yogyakarta, Indonesia

GDP Labs is a tech company based in Indonesia that focuses on AI, Blockchain, Cloud, Data, Web, and Mobile that serves customers in Indonesia and US.

• Researched and implemented real-time on-the-fly subdomains for GDP Labs' microblogging site.

#### Informatics Olympiad Tutor

#### **Jogja Science Training**

Jul 2016-Mar 2018

Yogyakarta, Indonesia

Jogja Science Training is a company based in Yogyakarta, providing preparation for informatics olympiads.

Guided high school students prepare for the National Informatics Olympiad, resulting in a total of 2 silver and 3 bronze medals.

#### **Education and Certifications**

B.Sc. Computer Science, Universitas Gadjah Mada, Indonesia. GPA: 3.63

2015-2019

## **Technologies and Languages**

Languages: Python, SQL, C++

Tools: GCP, Tensorflow, PyTorch, Scikit-learn, BigQuery, Airflow, Git, Docker, Milvus

• Technologies: Machine Learning, Deep Learning, NLP, Computer Vision, Multimodal Large Models (LLM, Vision Model), RAG

# **Projects & Achievements**

- Publication Automated Active Learning for Large Scale Ecommerce Product Categorization (Tokopedia, 2023)
- Publication Multi-Modal Method To Identify Misrepresented Products In Ecommerce (Tokopedia, 2021)
- Publication Data Strategy For Large Scale E-commerce Product Categorization (Tokopedia, 2021)
- 1st Place Winner in National Competitive Programming Techphoria 2017