Archel Taneka Sutanto

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SUMMARY

Passionate about leveraging data to solve problems strategically, I bring hands-on expertise in statistical analysis, machine learning experiments, and model deployment to drive business growth. With a methodical approach and a deep understanding of business operations, I have improved ML products and boosted profits. Eager to contribute to your mission of adopting data-driven models, I aim to deliver impactful insights while expanding my skills within a reputable program that values innovation and analytical excellence.

EDUCATION

Monash University

JUL 2024 - PRESENT

- Master of Data Science

University of Nottingham — *Bachelor of Science (Hons.)*

SEP 2019 - SEP 2020

- Major in Computer Science with AI
- First-class degree
- Part of the double degree program with Bina Nusantara University.
- Dissertation title: "Common Chest X-ray Classification and Localisation with Deep Learning"
  Advisor: Dr. Chao Chen

Bina Nusantara University — *Bachelor of Science*

SEP 2016 - SEP 2020

- Major in Computer Science
- GPA 3.74
- High Distinction

WORK EXPERIENCE

PT. Global Tiket Network, Jakarta, ID — *Associate Data Scientist*

OCT 2022 – JUL 2024

Founded in 2011, tiket.com is one of Indonesia's biggest OTA (Online Traveling Agency) companies. Working with the team of over 20 data scientists and machine learning engineers; my role required data analysis, data visualisation, machine learning model experiment & development, and model statistical test across all new and existing projects.

- Enhanced the performance of an in-house image quality classification model using OpenCV-based preprocessing pipelines, improving model accuracy by 10% through advanced computer vision techniques and feature optimization.

- Engineered and deployed a payment recommendation system leveraging machine learning algorithms, resulting in a 4.8% increase in conversion rate (CVR), +4.7% growth in gross booking value (GBV) amounting to IDR 94 billion, and an IDR 4.7 billion uplift in profit margin.
- Built and implemented a CatBoost-powered room grouping and merging model for hotel listings, achieving ~90% precision and recall, significantly enhancing product consistency and user experience through effective feature engineering and similarity scoring.
- Designed and deployed a hotel recommendation engine integrating point-of-interest (POI) and geospatial features, boosting Gross Booking Value (GBV) by IDR 8 billion and profit margin by IDR 1.1 billion in 2023; leveraged SQL and Google BigQuery for scalable feature engineering and data pipeline management.
- Optimized RPA (Robotic Process Automation) workflows by building a flight rescheduling and cancellation detection model using Keras and TensorFlow, reducing annual bot costs by IDR 150 million and operational expenses by IDR 165 million through automated email parsing and NLP-based intent recognition.
- Created dashboards for model diagnosing, visualization, and monitoring using Tableau and Google Looker Studio which include quantitative measures such as GBV, CVR, margin, model accuracy, etc.

VOLUNTARY EXPERIENCE

Monash University — *Graduation Ambassador*

OCT 2024 – OCT 2024

With a team of 6-7 people, the *Post Ceremony Check-in Ambassador* volunteers assist with check-in for Monash graduates and guests and guide them into the Post Ceremony Function space.

- Assisted over 100 guests and graduates with the check-in process, ensured all details were accurately recorded.
- Directed graduates and guests by providing clear instruction and support.
- Played a key-role in coordinating the flow of guests, helping to maintain order and timeliness during the event.
- Addressed and resolved issues related to check-in or guest inquiries.
- Effectively communicated both team members and attendees to ensure seamless transitions between different stages of events.

REFERENCES

Available upon request