Crysantha Monica Lim
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SUMMARY

Data Science student with hands-on experience in data governance, system analysis, and AI-driven projects. Skilled in collecting, cleaning, and analyzing data to extract actionable business insights, building predictive models, and applying machine learning for decision support. Experienced in cloud-based data environments (GCP, Azure) and active in AI projects involving deep learning and text classification. Eager to contribute to digital business innovation through data modeling, statistical analysis, and strong cross-functional collaboration.

WORK & ORGANIZATION EXPERIENCE

PT Bank Danamon Indonesia   Jakarta, Indonesia
Feb 2025 – now
Data Governance Analyst Intern, DAG Division
- Enhanced data efficiency and **quality** by conducting query mapping and performance analysis of SAS queries for multi-channel transactions, delivering optimization recommendations that reduced operational costs on Google Cloud Platform (GCP).
- Established a strong data governance foundation by standardizing technical terms and abbreviations within the Data Warehouse Lakehouse and contributing to the development and revision of Standard Operating Procedures (SOPs) covering workflows, access control, and metadata documentation.
- Ensured successful cloud migration by implementing data governance frameworks focusing on data quality, metadata, and cost optimization, while actively collaborating with cross-functional teams and external vendors to align technical standards with business needs.
   Tools : Ms.Excel, Ms.Word, My SQL, SAS Server, GCP

Bina Nusantara IT Division   Jakarta, Indonesia
Feb 2024 – Feb 2025
System Analyst, IT Architechture Division (Part Time)
- Collaborated with users and stakeholders to gather, define, and translate business requirements into actionable development plans, ensuring the successful delivery of features that align with strategic goals.
- Optimized system functionality by identifying business needs and proposing IT solutions, including the design of ERD diagrams to ensure accurate system architecture, improving overall efficiency and user satisfaction.
- Applied SDLC methodologies to streamline workflows, enhancing project delivery speed and accuracy while ensuring high-quality system implementations.
   Tools : Draw.io, Miro, Figma, Microsoft Excel and Word, Microsoft Azure

Himpunan Mahasiswa Teknik Informatika, HIMTI   Jakarta, Indonesia
Mar 2024 – Mar 2025
President of Kemanggisan
- Led a 88-activist member to execute strategic programs, enhancint IT students' skills and fostering community growth for approximately 2000 SOCS students across B26, B27, and B28.
- Organized seminars, workshops, and industry collaborations to create internship and job opportunities for students while maintaining effective communication with students, faculty, and stakeholders to foster a collaborative environment.
- Established partnerships national and international with companies such as BCA, CIMB Niaga for sponsorships and NVIDIA for partnership in workshop, as well as with Deloitte, KPMG, NoxGuard, and SOC for guest speakers. *Nov 2023 - Feb 2024*

Head of HIMTI Internship
- Managed the selection process, allowing candidates to explore and work in two divisions before making their final division choice.
- Facilitated hands-on experience for candidates, helping them gain insights into their preferred areas before committing to a division.
Aug - Oct 2023
Vice Chairman, SESKAM
- Led SESKAM 2023, providing essential skills training in proposal writing, LPJ, SPK, and negotiation for 400 HIMTI candidates.
- Coordinated training sessions, ensuring candidates effectively applied the skills learned to achieve successful outcomes.
Mar – Agt 2023
Coordinator Seminar and Wokshop, HISHOT
- Led the planning and execution of seminars and workshops, collaborating with speakers and managing logistics to ensure successful events.
- Collected and analyzed participant feedback, using insights to enhance future events and improve overall engagement
- Established partnerships with companies such as TP Link, AISEC, and Mading Event for sponsorships and media collaboration, as well as with Traveloka, Deloitte, and Philip Morris International for guest speakers.

PROJECTS

Deep Learning for Audio-Based Respiratory Disease Classification sing Clinical Sound Data
- Conducted research on hybrid CNN-based models (CNN+LSTM, CNN+RNN, CNN+SVM) for classifying respiratory diseases (COPD vs non-COPD) using clinical audio data; performed preprocessing, feature extraction (MFCC, ZCR, etc.), and model evaluation, with CNN+LSTM achieving 88% accuracy.

Comparative Analysis of 1-Stage and 2-Stage Text Classification Using IndoBERT
- Developed and evaluated two IndoBERT-based text classification models on Indonesian sports news data. Implemented a single-stage model for direct subcategory classification and a hierarchical two-stage model to enhance performance on imbalanced classes such as Liga Italia. The two-stage model achieved 100% test accuracy and F1-score for minority classes. Applied tokenization with max sequence length of 512, AdamW optimizer, CrossEntropyLoss, dropout regularization, and early stopping. Tools used: PyTorch, HuggingFace Transformers, and scikit-learn.

Image Generation with Generative Adversarial Networks (GAN)
- Independently developed and implemented a Generative Adversarial Network (GAN) from scratch using TensorFlow and Keras to generate synthetic images from the Fashion-MNIST dataset. Built custom generator and discriminator architectures, handled training and tuning, and evaluated performance using Fréchet Inception Distance (FID) to assess visual realism.

SKILLS

Soft Skills : Continuous growth mindset, Communication, Problem-solving, Flexibility, Active listening, Ideation and brainstorming, Creative and analytical thinking, Adaptability, Observation
Technical Skills : Microsoft Office, Programming Languages (Python, C), Data Analysis and Visualization (R, Spark SQL, Tableau, MySQL, SAS), Computer Networking (Cisco), Data Preparation and Cleaning, Predictive Analysis, Machine Learning and Deep Learning Models, Big Data Infrastructure/Cloud (AWS, Microsoft Azure, GCP), Model Deployment (FastAPI, Streamlit), Software Engineering (HTML, CSS, JS, Flutter, ASP.NET, Draw.io, Figma, Miro), Text Mining, Data Security
Language: Bahasa Indonesia (Native), English (Conversation)

EDUCATION

Bina Nusantara University
2022 - present   Jakarta, Indonesia
*Bachelor Degree | Majoring in Data Science | GPA: **3.67**/4.00*
- **Relevant Coursework:** Artificial Intelligence, Basic Statistic, Bayesian Data Analysis, Big Data Infrastructure and Technology, Data Management and Organization, Data Mining and Visualization, Data Security, Database Technology, Deep Learning, Machine Learning, Model Deployment, Scientific Computing, Survey and Sampling Methods, Text Mining
- **Awards :** Sole Palembang Recipient of Best School Scholarship (The scholarship was granted for being the top student at a prestigious school in Palembang.)