

GADING ADITYA PERDANA

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Computer Science Undergraduate | Focused on AI Research
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Work Experiences

Otoritas Jasa Keuangan (OJK) - Jakarta, Indonesia Jul 2024 - Aug 2024

Internship

The Financial Services Authority of Indonesia (OJK) is an independent institution that regulates and supervises banking, capital markets, and non-bank financial services to ensure financial system stability, protect consumer interests, and promote sustainable economic growth.

- Assisted in banking supervision app development, focusing on regulatory compliance, performance, and user experience optimization.
- Collaborated with senior developers in Quality Control/Assurance, conducting code reviews, debugging, and testing the SIP BPR/BPRS system to enhance reliability.
- Updated data tables, authored user manuals, and contributed to project planning and technical discussions.
- Completed a comprehensive internship report summarizing key contributions and outcomes.

Education Level

Universitas Bina Nusantara - Jakarta, Indonesia Aug 2023 -

Degree Computer Science, 3.21/4.00

- Peer Tutoring & Bootcamp Instruction: Organized and led free tutoring sessions in Statistics, Discrete Mathematics, and Linear Algebra for 15–20 classmates. Successfully completed and concluded a bootcamp for freshmen covering Algorithm & Programming, Statistics, and Linear Algebra.
- Computational Physics Teaching: Delivered comprehensive lectures in computational physics to 150+ Computer Science students, enhancing their practical understanding of the subject via Discord & Video
- Leadership Roles: Event Specialist, Binus ibuddy+ Odd (Fall) 2024/2045
- Freshmen Chaperone, Binus 2024 FYP for Binusian 2028 Orientation
- Projects & Research
- StyleTailor – Customizable T-Shirt Design Website: Developed and published a front-end web application that allows users to customize and order t-shirts. Integrated the Polotno API to offer interactive, Canva-like customization features that support both original and custom designs.
- Diabetic Retinopathy Detection Using CNN: Completed a project that achieved 88% accuracy on unseen data (using the 2019 APTOS competition dataset, with training on 2015 data). The application, built with Tkinter, processes input files to analyze retinal images and outputs diagnostic information along with GradCAM heatmaps.
- Facial Recognition for Airport Security: Designed and implemented a real-time facial recognition system using CNN with webcam integration, aimed at streamlining ticket exchange and enhancing airport security measures.
- Skin Type Detection Using CNN: Developed a real-time skin type detection application leveraging CNN and webcam input, providing immediate analytical feedback.
- Ensemble Model Research: Currently researching an ensemble approach that integrates six models (InceptionV3, ViT_B16, DenseNet121, ResNet50, EfficientNetB0, MobileNetV3) to compare ensemble distillation versus mutual learning strategies.

Organisational Experience

Bagi Dunia - Jakarta Feb 2024 - Present

Volunteer

BagiDunia is a community-driven organization that initiates social activities aimed at sharing resources and fostering empathy. The organization provides opportunities for young people to develop their skills and create positive change by addressing societal, environmental, and humanitarian challenges.

- Organizational Leadership: Spearheaded social initiatives within BagiDunia, a community organization committed to sharing, empathy, and empowering underserved communities.
- Organized a successful fundraising campaign using AtapKita's service for the 5th volume of BagiDunia's activities, themed "United, Together We Can" (Bersatu Bersama Kita Bisa). This initiative supported creative and educational projects for communities such as Kampung Pemulung.
- Operational Excellence: Developed and assigned job descriptions for staff and formulated Standard Operating Procedures (SOPs) for both intra-division and inter-division coordination. Attended charity initiatives, helped organizing logistics for food distribution and nursing home visits.
- Volunteered 5+ events focused on fostering community connection, including iftar meal distributions during Ramadan and food drives

in underserved areas like Kampung Pemulung.

- Provided educational sessions on animals and plants to children in Kampung Pemulung.

Certifications & Projects

- **Projects** 📄 (2024): Completed Project - Second Semester, Developed and published a front-end web application concept "StyleTailor"
- **Achievements** 📄 (2021): Represented school in an international debate on "Climate Change," advocating for actionable change and engaging in discourse that underscored global perspectives.
- **Hard Skills** 📄: Scientific Computing with Python - FreeCodeCamp
- **Hard Skills** 📄: Responsive Web Design certification - FreeCodeCamp
- **Hard Skills** 📄: Computer Vision - Kaggle
- **Hard Skills** 📄: Intro to Machine Learning - Kaggle
- **Hard Skills** 📄: Intermediate Machine Learning - Kaggle
- **Hard Skills** 📄: Machine Learning Explainability - Kaggle
- **Hard Skills** 📄: Intro to Deep Learning - Kaggle
- **Hard Skills** 📄: Data Visualization - Kaggle
- **Hard Skills** 📄: Data Cleaning - Kaggle
- **Hard Skills** 📄: Intro to AI Ethics - Kaggle
- **Hard Skills** 📄: JavaScript Algorithms and Data Structures - FreeCodeCamp
- **Hard Skills** 📄: Legacy JavaScript Algorithms and Data Structures - FreeCodeCamp
- **Hard Skills** 📄: Data Analysis with Python - FreeCodeCamp
- **Hard Skills** 📄: Machine Learning with Python - FreeCodeCamp
- **Hard Skills** 📄: College Algebra with Python - FreeCodeCamp