RISKA MELLY AGUSTIN

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I am a final-year Information Systems student with a strong concentration in Data Science and hands-on experience in software development, analytics, and system integration. My technical expertise spans Python, SQL, and Django, with growing proficiency in full-stack development using modern web technologies. With a structured, persistent, and detail-oriented mindset, I thrive on building intelligent digital solutions, particularly in educational and organizational contexts. My recent projects include deploying machine learning models and web-based platforms that support data-driven decision-making and early intervention systems.

# EDUCATION

**President University – Bekasi, Indonesia** Aug 2023 – Present

*Bachelor of Information Systems (GPA: 3.90/4.00) — Aug 2023 – Present*

# ACHIEVEMENT AND CERTIFICATION

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* Top 10 Finalist, AI Business Case Competition – XL Axiata x University of Indonesia, 2023
* Finalist, Business Plan Competition – IDEAS UGM, 2025
* Finalist, GEMASTIK ICT Scientific Paper – National ICT Competition, 2023
* Digital Talent Scholarship Recipient – Microcredential Program in Startup Foundation & AI Applications (by KOMDIGI), 2023
* Certified, Mastering Data Science, AI & Machine Learning – Udemy, 2025
* AWS Certified Machine Learning – Specialty, AWS Training & Certification, 2025
* AWS Certified Data Analytics – Specialty, AWS Training & Certification, 2025

**ORGANIZATION EXPERIENCE**

**Member of Student Catalyst Batch 4 – Jakarta** Jan – Sep 2024

* Conducted market research and audience analysis to support event planning and content strategies.
* Initiated content-driven engagement plans that increased digital interaction across IG and LinkedIn by ~25%.
* Collaborated with external partners and successfully secured 3 sponsorships for organizational programs.

**Student Activity, Investment Club President University – Bekasi** Oct 2024 – Present

* Served as Vice Project Manager for an annual national-level essay competition on investment and economic strategy, attracting 100+ participants from various universities across Indonesia.
* Coordinated event planning and execution under the Student Activities (SNEA) division, in collaboration with Sinar Mas Sekuritas and the Indonesia Stock Exchange (IDX).
* Led a cross-functional team in organizing webinars and judging panels, enhancing campus financial literacy engagement.

**Research and Development Analyst, StudentXCEO – Jakarta** Sep 2024 – Present

* Conducted competitive market analysis and opportunity mapping for early-stage startups incubated by the organization.
* Proposed strategic insights on brand positioning, pricing models, and customer segmentation used by partner startups in their pilot validation.
* Worked cross-functionally with teams in product, marketing, and operations to align recommendations with real-time business goals.

**PROJECT EXPERIENCE**

**PUMA Organizational App – Flutter & Firebase**

**President University | Nov – Dec 2024**  
Developed a functional mobile app prototype to streamline event management and communication across major associations at President University.

* Designed a multi-role user system separating admin and member access, with features for event registration, notifications, and in-app voting.
* Integrated Firebase Realtime Database and Cloud Messaging for real-time updates and user interaction.
* Implemented QR-based attendance tracking and a modular content system for schedules and announcements.
* Conducted internal testing with organizational stakeholders to validate usability and system flows.  
  **Tools**: Flutter, Firebase Realtime Database, Firebase Cloud Messaging

**Wage Trend Forecasting with AI – Python & ML Models**

**Independent Project | Oct – Dec 2024**

* Analyzed and predicted U.S. wage trends (1973–2022) across demographics and education levels using machine learning.
* Built Linear Regression, Logistic Regression, K-Means clustering, and ARIMA models for predictive and segmentation analysis.
* Achieved 85%+ accuracy on regression models (MAE: <$2,500), revealing patterns across race, gender, and education tiers.
* Visualized insights through heatmaps, time-series graphs, and comparative bar charts using Matplotlib & Seaborn.
* Delivered findings in a comprehensive report supporting data-driven policymaking in workforce equity.  
  **Tools**: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook

**Dormitory Management System – PHP & MySQL**

**Academic Project | Oct – Dec 2023**  
Designed and implemented a web-based dormitory management system to optimize operational workflows in campus housing.

* Built modules for room allocation, student profiles, occupancy logs, and automated notifications for payment and maintenance deadlines.
* Developed an admin dashboard with real-time data visualization of room usage, student feedback, and maintenance status.
* Collaborated with housing staff to gather functional requirements, ensuring alignment with real-world dorm operations.
* Reduced manual scheduling complexity through digital forms and database-driven reminders.  
  **Tools**: PHP,Laravel, MySQL, HTML, CSS, JavaScript

**Student Dropout Prediction Platform – Full-Stack ML Web App**

**Academic Project | Apr – Jun 2025**

* Built and deployed a full-stack web platform for predicting student dropout risk and detecting behavioral anomalies using academic activity data.
* Trained XGBoost and Random Forest models on PostgreSQL-based student datasets, achieving up to **92% classification accuracy**.
* Implemented KMeans and Isolation Forest for unsupervised anomaly detection (**silhouette score > 0.72**) to segment high-risk students.
* Integrated all models into a Django backend, with dual input modes: manual entry and dynamic search from database records.
* Developed frontend dashboards using Chart.js and vanilla JavaScript to visualize dropout risk, academic performance, and anomaly clusters.
* Delivered as a **fully functional web application**, combining backend logic, database integration, and interactive UI for institutional use.

**Tools**: Python, Django, PostgreSQL, Scikit-learn, XGBoost, Random Forest, KMeans, Isolation Forest, Chart.js, HTML, CSS, JavaScript

**SKILLS**

**Technical Skills**

**Languages & Frameworks**: Python (Advanced), SQL (Intermediate), JS (Basic), PHP (Intermediate), Laravel(Intermediate), Java (Basic)  
**Libraries & Tools**: Django, Flutter,Laravel, Scikit-learn, Firebase, Chart.js  
**Databases**: PostgreSQL, MySQL  
**Analytics Tools**: Excel, Power BI, Jupyter  
**ML Expertise**: Classification, Regression, Clustering, Anomaly Detection, Time-Series, K- Means, XGBoost  
**Other Tools**: Git, Google Colab, VSCode

**Soft Skills**

Business-Technology Alignment, Analytical Thinking & Problem Solving, Systematic & Logical Workflow, Stakeholder Communication,Requirements Gathering & Analysis, Team Collaboration, Adaptability in Tech-Driven Environments, Ethical Thinking in System Design.

**Languages**

Bahasa Indonesia (Native), English (Professional Proficiency – Written & Spoken)