

Boni Vasius Rosen

Data Analytics, IT Portfolio Management, AI and Machine Learning Engineer
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SUMMARY

Data analytics, AI and machine learning engineer with 4+ years' experience delivering data-driven solutions in global banks and international organizations. Skilled in IT portfolio management, data governance, and applied analytics, with hands-on expertise in cloud-based data pipelines, AI/ML model deployment, and Responsible AI practices. Currently pursuing an M.S. in Applied Analytics at Columbia University (May 2026); committed to leveraging technology to scale impact in development finance.

CORE COMPETENCIES

- Technical Expertise: applied machine learning, natural language processing, deep learning, database management, data engineering, research design and financial data analysis.
- Software & Tools: Python, R, SQL, Tableau, Spark, Docker, Azure ML, Jira, Planview
- Soft Skills: Team Collaboration, Problem-Solving, Critical Thinking, Project Management, Stakeholder Engagement
- Languages: Indonesian (Native), English (IELTS 7.0)

EXPERIENCE

IFC, International Finance Corporation, World Bank Group, Washington DC, US

Global Internship Program (GIP), Data Management & Process Improvement Intern (Aug 2025 – Sep 2025)

- Proposed and designed an AI-enabled text classification solution to eliminate manual case-data reviews, cutting review time by ~75% and improving accuracy of performance standards (PS) tagging.
- Designed end-to-end pipeline framework incorporating rollback strategies and telemetry integration to strengthen case-data quality controls. Also, built scalable QA scripts to support responsible Large Language Model (LLM) adoption, ensuring audit-readiness, content safety and compliance with WBG data governance policy.
- Partnered with cross-functional teams to enable automation of knowledge management platforms, driving AI deployment and implementation to support day-to-day to operation in Compliance Advisor/Ombudsman Office (CAO).

HSBC, Hongkong and Shanghai Banking Corporation, Jakarta, Indonesia

Management Information & Analytics, Manager (Oct 2022 – Jan 2025)

- Managed analytics portfolio delivering dashboards in Tableau and Python for a USD 850M retail loan portfolio; improved fiscal planning accuracy by 11%.
- Led Agile delivery of risk dashboards, improving transparency across SEA portfolio; appointed Project Manager for regional MI centralization (on-time completion, real-time sharing across Hong Kong hub).
- Built a generative-AI proof-of-concept for credit write-ups & document summarization using internal and external data sources, reducing analyst write time by ~25%. Reflects HSBC's use of generative AI in credit processing

Citibank N.A., Jakarta, Indonesia

Portfolio Analytics & Forecast Modeling, Analyst (Sep 2020 – Oct 2022)

- Proposed and completed predictive model enhancement for economical-stress net loss forecasting model which is used for Citibank's main product in emerging market across Southeast Asia. The enhancement of these models resulted in a more realistic and reliable forecast for Business Outlook/Planning, increasing model's accuracy and sensitivity by ~15%.
- Performed portfolio analytics and net credit loss forecast as part of Comprehensive Capital Analysis and Review (CCAR) to provide insight in determination of portfolio management action (portfolio size ~USD 700Mn)
- Collaborated with regional team to provide credit risk model's performance review, alignment of statistical approaches to forecast financial trends and enhancement of model methodology.

EDUCATION

Columbia University – School of Professional Studies

Master of Science in Applied Analytics (Jan 2025 – *May 2026)

Core Courses: Applied Machine Learning, Applied Text and Natural Language Analytics, Applied Analytics Methodology and Framework, Applied Deep Learning, Fundamental of Data Engineering, Research Designation, SQL and Relational Database.

INSTITUT TEKNOLOGI BANDUNG (ITB) – Faculty of Earth Science and Technology

Bachelor of Science in Geological Engineering (Aug 2015 – Sep 2019)

Core courses: Information Technology, Mathematics, Statistics, Engineering Design and Management

Bachelor's thesis: "Data Modeling for Reserve Estimation in Pagerungan East Java Gas Field".

LICENCES AND CERTIFICATIONS

Exploratory Data Analysis and Statistics in R – Issued by Datacamp Dec 2024

Data Visualization in Tableau – Issued by Datacamp Dec 2024

Asset and Liability Management (ALM) – Issued by HSBC University Oct 2024

Data Analytics and Modeling in Python – Issued by Algoritma Data Science School Nov 2023

Financial Risk Manager (FRM) II – Issued by Global Association of Risk Professional (GARP) Dec 2022

Financial Risk Manager (FRM) I – Issued by Global Association of Risk Professional (GARP) May 2021

REFEREES

Irum Ahsan | Head of Advisory Team, Compliance Advisory/Ombudsman Office, World Bank Group | iahsan@worldbankgroup.org

Agustina Palencia | Advisory Analyst, , Compliance Advisory/Ombudsman Office, World Bank Group | apalencia@worldbankgroup.org

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