

# 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 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

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