

Johanes Paulus Bernard Purek

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Summary

Dedicated Information Systems student at Universitas Brawijaya with a strong foundation in data science and analytics, while learning more about data engineering and business analysis. Proficient in SQL, Python, Excel, Looker Studio, and machine learning, with hands-on experience in many projects starting from predictive modeling to big-data analytics. Passionate about AI and Data-Driven Insights for business optimization, by skilled in data visualization, processing, and modeling. Enthusiastic about solving complex problems, bridging technology and business, and collaborating with dynamic cross-functional teams to develop data-driven solutions.

Experience

Project-Based Virtual Intern: Data Scientist - Home Credit Indonesia x Rakamin Academy

Home Credit Indonesia

Mar 2025

- Developed a credit risk prediction model to assess loan repayment capabilities using statistical methods and machine learning.
- Conducted data preprocessing, feature selection, and model evaluation to enhance predictive accuracy.
- Built and compared multiple models, including Logistic Regression, Random Forest and 2 other model, selecting Random Forest with 95.55% score's as the best-performing model based on training-testing accuracy and ROC-AUC score.
- Provided 8 business insights and 3 recommendations to improve loan approval strategies while minimizing risk. [[Link](#)]

Laboratory Teaching Assistant

Faculty of Computer Science

Malang

Feb – Dec 2024

- Delivered coursework Database Administration with IBM DB2 and Advanced Programming with Java to over 75 students, covering more than 20 topics including OOP, database architecture & environment, software development, and database management concepts.
- Prepared materials covering with more than 10 powerpoint slides, designed 3 HackerRank-based practice & exams, and provided additional hands-on guidance minimum twice(2) a week, helping students achieve an average final score of 90+. [[Link](#)]

Education

Universitas Brawijaya

Majoring in Information Systems – GPA: 3.79 out of 4.00

Malang

Aug 2022 – Present

- Relevant Coursework: Basic & Advance Programming, Basic Database, Computational Mathematics, Database Administration, Data Analysis & Quantitative Research, Data Warehouse, Financial Management, Statistics.
- Data Warehouse Project about Designing, Building, and Maintaining Data to Optimize Online Analytical Processing Product Sales in USA Retail Store using Talend Open Studio.

SMAK Kolese Santo Yusup Malang

Mathematics & Natural Sciences – GPA: 87.34 out of 100.00

Malang

Jul 2019 – May 2022

- Participated in Mathematics field Olimpiade Sains Nasional Competition in Province stage in 2021.
- Participated as Member of Majelis Perwakilan Kelas 2020-2021 period.

Organizational Experience

Data Scientist Internship

Basic Computing Community

Malang
Feb – Mar 2024

- Conducted a business analysis project titled "Customer Segmentation Based on Behavior and Shopping Habits" using a dataset with over 3,900 records and 18 features.
- Developed and resolved preprocessing pipelines, including scaling and encoding techniques, to enhance feature quality for machine learning models.
- Implemented and evaluated five machine learning algorithms, achieving the best results using the BIRCH clustering method with a Silhouette Score of 58.9%, providing actionable insights for customer segmentation strategies. [\[Link\]](#)

Expert Staff

Keluarga Besar Mahasiswa Departemen Sistem Informasi

Malang
Mar 2023 – Feb 2024

- Led as Project Manager and UI/UX Designer in the Informatics Division for the development of the KBMDSI website first version, utilizing agile methodologies to complete the project within four months.
- Successfully designed and optimized user-centered prototypes and interfaces using tools like Figma, enhancing the usability and engagement of the website. [\[Link\]](#)
- Actively contributed as a coordinator and facilitator for various events organized by KBMDSI, ensuring smooth execution and impactful outcomes.

Internship Staff

Keluarga Besar Mahasiswa Sistem Informasi

Malang
Oct – Dec 2022

- Immersed in organizational culture, gaining hands-on experience in evaluating and assessing new work programs based on defined criteria.
- Developed analytical skills by reviewing and providing constructive feedback for program proposals, fostering improvements in departmental initiatives.
- Expanded professional network through collaboration with peers and senior members, strengthening connections within the department.

Project

Home Credit Scorecard Model

- Project-Based Virtual Intern: Data Scientist - Home Credit Indonesia x Rakamin Academy, [\[Link\]](#), 2025

Sales Trends Exploratory Data Analysis

- RevoU Data Analytics Mini Course Batch Feb. 2025, [\[Link\]](#), 2025

Exploring Superstore Sales in the USA: A Simple Analysis Using Tableau

- Dibimbing.id Business Intelligence Live Class, [\[Link\]](#), 2024

COVID-19 Analytics Cases

- ASEAN Data Science Explorers, [\[Link\]](#), 2024

Consumer Segmentation Based on Behavior and Shopping Habits

- Basic Computing Community Data Science Internship, [\[Link\]](#), 2024

Course and Certification

Course

- Intro to Data Analytics - Mini Course by RevoU, [\[Link\]](#), 2025
- Belajar Dasar Visualisasi Data by Dicoding, [\[Link\]](#), 2025
- Belajar Dasar Data Science by Dicoding, [\[Link\]](#), 2024
- Belajar Dasar Structured Query Language (SQL) by Dicoding, [\[Link\]](#), 2024
- Memulai Pemrograman dengan Python by Dicoding, [\[Link\]](#), 2024
- Mini Bootcamp Data Science by Basic Computing Community, [\[Link\]](#), 2023

Certifications

- Certificate of Achievement - Home Credit Indonesia Data Scientist Project Based Internship Program by Home Credit Indonesia, [\[Link\]](#), 2025
- Project Management Fundamentals by IBM SkillsBuild, [\[Link\]](#), 2024
- SQL (Intermediate) by HackerRank, [\[Link\]](#), 2024
- SQL (Basic) by HackerRank, [\[Link\]](#), 2024
- ASEAN Data Science Explorers by SAP, ASEAN Foundation, Dampak Sosial Indonesia, [\[Link\]](#), 2024

Skills and Language Proficiency

Technical Skills: SQL, Python, Java, PHP, Ms. Excel, Looker Studio, Ms. Power BI, Tableau, IBM DB2, Data Cleaning, Data Processing, BigQuery, Machine Learning, Data Analysis, Business Analysis, Data Storytelling, Business Acumen, Business Process Improvement, Figma, Project Management

Interpersonal Competencies: Teamwork, Communication, Problem Solving, Leadership

Language Proficiency: Indonesian (Native), English (Intermediate), Dutch (Basic)

Other: Github [github.com/johanbernardd]