

# M RISLAN TRISTANSYAH

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A highly-focused fifth-semester Telecommunication Systems student (Universitas Pendidikan Indonesia) specializing in Artificial Intelligence (AI), Cloud Computing, and Machine Learning for network optimization. I function as a hybrid problem solver and strategic planner, dedicated to bridging technical depth with measurable execution. My primary goals are completing a professional internship and publishing a Scopus journal paper on AI-driven network optimization, supported by my strong commitment to innovation and reliable teamwork.

## Education Level

**Universitas Pendidikan Indonesia - Jl Setiabudi No.229, Isola, Sukasari, Bandung, Jawa Barat 40154**

Jun 2023 - Present

*Bachelor, 3.63/4.00*

- Relevant Coursework: Broadband Networks & Optical Communication, Switching Techniques, Telecommunication Networks, Data Signal Processing, Telecommunication Electronics, Network Device Simulation & Programming, Cloud Computing, and Consulting Project.
- Participated in "WRITING INTERNATIONAL GRANT RESEARCH" scientific writing training.
- Obtained Google Cloud Computing Foundations certificate of completion

**Sman 1 Cibatu - Jl. Raya Cibatu No.KM. 15, Cibatu, Kec. Cibatu, Kabupaten Purwakarta, Jawa Barat 41181**

Jul 2019 - Jul 2023

*Senior High School, 83.00/100.00*

## Organisational Experience

**Himpunan Mahasiswa Sistem Telekomunikasi - Universitas Pendidikan Indonesia**

Dec 2024 - Dec 2025

*Staff Departemen Profesi dan Kejuruan*

- Program Coordinator Skilltopia - Managed biweekly updates of 20+ verified resources on telecom trainings, certifications, competitions, and scholarships, ensuring accuracy and timely communication to all program members.
- As Department Secretary, I documented comprehensive minutes for internal meetings, supported the Head of Department administratively and coordinatively, managed official correspondence in line with organizational standards, and drafted accountability reports (LPJ) for small-scale departmental programs.

**Majelis Perwakilan Kelas - SMAN 1 Cibatu**

Nov 2021 - Oct 2022

*Vice Chairperson*

- Assisted and represented the Chairperson in strategic decision-making and the execution of organizational duties
- Served as Deputy Chair of the plenary session for the ratification of work programs and accountability reports.
- Supervised and coordinated two oversight commissions in receiving and evaluating reports from each OSIS department.
- Initiated regular forums for discussion and performance evaluation to enhance leadership quality and organizational governance.

**Organisasi Siswa Intra Sekolah - SMAN 1 Cibatu**

Oct 2020 - Nov 2021

*Head of Division II*

- Chief Coordinator for Teacher's Day and Independence Day events during the COVID-19 pandemic
- Deputy Coordinator for Mojang Jajaka event commemorating Kartini Day
- Executor of long-term organizational programs
- Cross-division committee support and collaboration

## Projects

**OSIS/MPK MAN Purwakarta Web Development & AI Literacy | Kompasiana**

- Designed and developed a full-stack, responsive website using **Native PHP** for the OSIS/MPK of MAN Purwakarta, featuring a customized dashboard tailored to the school's identity.
- Built a robust **Admin Panel** and Content Management System (CMS) to facilitate seamless updates for news blogs, extracurricular activities, and organizational work programs.
- Conducted the "**Digiman Literacy**" seminar on November 10th (Hero's Day) to educate students on leveraging Artificial Intelligence (AI) as a co-pilot for academic and organizational productivity.

**NeuroScan: AI-Powered Brain Tumor Detector | Github**

- Developed an end-to-end web application for brain tumor classification using a **6-layer Lightweight CNN** optimized via **NLCMFO** (Nonlinear Chaotic Moth-Flame Optimization).
- Engineered a robust full-stack architecture featuring a **React** (Vite) frontend and a **FastAPI** backend to deliver real-time MRI image analysis via high-performance REST APIs.
- Achieved **92% accuracy** through 5-fold cross-validation, incorporating automated image preprocessing with **OpenCV** and data augmentation for enhanced model stability.

## Telecommunication Customer Churn Prediction | Github

- Developed a high-performance classification model using **XGBoost** to identify at-risk customers, enabling data-driven proactive retention strategies.
- Implemented an end-to-end machine learning pipeline featuring **SMOTE** for data balancing, **GridSearchCV** for hyperparameter optimization, and **SHAP** for model interpretability (XAI).
- Achieved an **F1-Score of 92.1%** and **Recall of 89.8%**, delivering a production-ready model to prioritize interventions for high-risk subscribers.

## Skills, Achievements & Other Experience

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- **Hard Skills** : Python, Google Collabs, Google Cloud, Figma.
- **Soft Skills** : Leadership, Time Management, Project Management, Problem Solving, Team Work.
- **Area of Focus**: Machine Learning, Web Development, Cloud Computing, Networking.

## Certifications & Awards

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- Google Cloud Computing Foundations Certificate – Google Cloud, 2025.
- Supervised Machine Learning: Regression and Classification – DeepLearning.AI, 2025.
- Gemini Certified University Student – Google for Education, 2025.
- ACA Cloud Computing Certification – Alibaba Cloud, 2024.