Irawansyah

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Bandung, ID

EDUCATION

Telkom University   Bandung, Indonesia
Bachelor of Computer Science, Major in Informatics   **Aug 2017 – Aug 2021**
GPA: 3.61/4.0 (Cum laude)
Research Paper Publication: Comparative Analysis of Support Vector Machine (SVM) and Random Forest (RF) Classification for Cancer Detection using Microarray (**DOI:** 10.1109/ICoICT52021.2021.9527458)
Relevant Coursework: Machine Learning; Natural Language Processing; Artificial Intelligence; Data Visualization

PROFESSIONAL EXPERIENCE

PT Bank Mandiri (Persero) Tbk.   South Jakarta, Indonesia
Data & Analyst Intern in Digital Banking Delivery   **Oct – Des 2021**
- Collaborated with robo team to calculate 5+ financial function like PMT, FV (Future Value), NPV (Net Present Value), PV (Present Value)
- Create model using python to predict 10+ stock index products by the end of 2021

Front-End Intern in Digital Banking Delivery   **Aug – Oct 2021**
- Collaborated with the front-end development team to develop 3+ interfaces for chat banking features such as top-up money, transfer from favorite, and payment.
- Fixed bugs, refactored code, and managed the application ecosystem
- Collaborated with backend team to integrate the application with API

Chatbot Engineer Intern in Digital Banking Delivery   **Jun 2021 – Sep 2021**
- Collaborated as internal for Digital Banking Delivery at PT Bank Mandiri to develop MITA (Mandiri Intelligence Assistance) product. MITA can manage 10+ knowledge, intent, entity, context related to customer questions and requests
- Developed intention, entity, button and dialog on MITA bot

Yayasan Anak Bangsa Bisa powered by Gojek   Jakarta, Indonesia
Data Analyst Path (Intermediate Level) – Generasi Gigih 2021 Participant   **Jul– Sep 2021**
- Learn from 10+ Teachers in English class from Cakap and 30+ Product Engineers and Data Heroes technical instructors in my to pursue a career as a data analyst by learning about: Introduction to data, SQL, effective query, statistics, analysis doc, python, library pandas, library NumPy, basic data viz, and create an effective dashboard.

Data Analyst Path (Beginner Level) – Generasi Gigih 2021 Participant   **May – Jul 2021**
- Students in the Data Analyst learning a career as Data Analyst with 1000+ registered student by implementing about SQL and Python

Digital Talent Scholarship powered by Kominfo   Indonesia
Machine Learning Path - Fresh Graduate Academy   **May – Jul 2021**
- Graduated from the fresh graduate academy program with a pass rate of 40.7% of 1375 students.
- Students in the Machine Learning Path learning about 7+ course: Programming with Python from Dicoding, Data Analysis with Python from IBM, Basic Data Visualization from Dicoding, Data Visualization with Python from IBM, Introduction to AI class from Elements of AI (University of Helsinki), Machine Learning for Beginners from Dicoding, Machine Learning Development from Dicoding

Telkom Indonesia   Bandung, Indonesia
Software Documentation Talent in Digital Talent Incubator (DTI)   **Sep – Dec 2020**
- Documentation 10 + a software like requirements document, design document, technical document, and end-user document
- CI/CD Implementation and API documentation with Swagger
- Create 3+ a use case model, scenarios, class diagram, and sequence diagram
- Create software requirement specifications, and acceptance criteria for ChatAja Application.

Bank Indonesia   Jakarta, Indonesia
Software Engineer Intern   **Jun – Aug 2020**
- Podcast app development with flutter framework by creating 7+ features
- Build user authentication with email and password using Firebase Auth REST API

Telkom University   Jakarta, Indonesia
Assistant Lecturer of Analysis Design and Algorithm   **Jan – May 2020**
- Correct and recapitulate assessment and problem set
- Assist 30+ students in supervising midterm and final exam
- Provide assistance and responsiveness to 30+ students

Telkom University   Jakarta, Indonesia
Practicum Assistant of Object-Oriented Programming   **Aug 2019 – May 2020**
- Interact with diverse 5+ students to teach how to manage code of Object-Oriented with programming languages Java
- Assess student journals and input grades into an online system
- Guide and monitor students to complete their final project

AWARDS

- Ruangguru Academy Scholarship Awardee 2021 by Ruangguru
- Pamasuka Scholarship Awardee 2021 by Telkom University

ORGANIZATION EXPERIENCES

Permala (Persatuan Mahasiswa Lampung) Telkom   Lampung, Indonesia
Design and Documentation Member in Mulang Tiyuh   **Sep – Oct 2019**
- Designed and editor 5+ video an event project roadshow dedicated to promote Telkom University in Lampung

PCM (Persatuan Catur Mahasiswa) Telkom   Bandung, Indonesia
Design and Documentation Member in Telkom Chess Competition   **Sep – Oct 2017**
- Designed and editor 4+ video an event project

SELECTED PROJECTS

Covid-19 Tracker Dashboard (Tools: Google Data Studio)   **Aug 2021**
- Designed a dashboard for data analytics on Covid-19 to track, analyzes and display metrics and critical data points. Dashboard empower both technical and non-technical user to understand more informed decisions.

Time Series (Skills: Python, Tensorflow, Keras)   **Aug 2021**
- Implement models for Time Series prediction with Tensorflow and Keras to making a matrix to evaluate the models for time series the name is MAE with < 10% data scale. Implement transfer learning pre-trained model, learning rate, callback padding stride to find out how much influence it has on the results of accuracy and loss when the technique is applied in the model to avoid overfitting and improve accuracy.

Classification for Cancer Detection using Microarray (Skills: Python)   **Aug 2021**
- Comparing the performance result of the Support Vector Machine (SVM) and Random Forest (RF) classification methods combined with Random Projection (RP) as a dimensional reduction method for cancer detection using microarray data
- Implements Hyperparameter Optimization to find the best and implements dimensional reduction to reduce the complexity of microarray data with RP to minimize errors in the classification process using Random Projection.
- The best accuracy for Colon Tumor is 69.23% with Random Projection (RP)-SVM, Lung Cancer is 100% for both methods classification, Ovarian Cancer is 100% for both methods classification, the prostate tumor is 95.12% for both methods classification and Central Nervous System is 66.66% for both methods classification.

ADDITIONAL INFORMATION

- **Technical Skills**: Advanced Python Knowledge, SQL, Machine learning Libraries (NumPy, Pandas, Scikit-learn, matplotlib, seaborn, TensorFlow, Keras), Git, Java, Javascript, Google Data Studio and Google BigQuery
- **Languages**: Fluent in Bahasa, Conversational Proficiency in English
- **Online Courses and Certificates:** SQL for Database Manipulation (Progate), SQL for Data Science (Coursera), Python for Software Engineer (Progate), Git Course (Progate), Start Programming with Python (Dicoding), Data Vizualization with Python (IBM), Data Analysis with Python (IBM), Machine Learning Development (Dicoding), Learn Machine Learning for Beginners (Dicoding), Data Analysis with Python (Dicoding), Computer Vision and Natural Language Processing using Deep Learning (Artificial Intelligence Lab), Effective Writing for CV and Cover Letter (XL Future Leaders), Job Interview Preparation (XL Future Leaders)