ISMAIL AL FARUQI

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Resume Summary

Ismail Al Faruqi, a fresh graduate from Institut Teknologi Bandung, leverages his expertise in remote sensing and GIS to deliver strategic solutions for complex projects. Passionate about utilizing GIS to empower sustainable development and drive positive impact across diverse industries. Seeking a challenging role to contribute my expertise and collaborate in a dynamic environment.

Education

Bandung Institute of Technology, Indonesia   *Aug 2019 – July 2023*
Bachelor of Science in Geodesy and Geomatics Engineering
GPA 3.63/4.00

Work Experiences

1. **Individual Consultant of Regional Infrastructure Development Board**   *Aug 2023 – Current*
   Ministry of Public Works and Housing
— Developing a spatial data-based approach for planning and evaluating investment of more 150 infrastructures.
— Developed a geospatial-based decision support system that integrates sustainability principles into infrastructure planning, enabling the government to prioritize infrastructure projects.
2. **Researcher of Geospatial Institute for Sustainability Action (GISACT)**   *Jan 2023 – Current*
— Implemented geospatial artificial intelligence techniques to address environmental and sustainability challenges (four scientific papers in which one was published) contributing to food security, habitat suitability model, ecosystem services, renewable energy, and future internet accessibility.
3. **Research Assistant** of Faculty of Agriculture, Padjadjaran University   *Aug – Dec 2022*
— Conduct an study analysis of land degradation in Citarum Basin for ALG (Academic Leadership Grant) program.
4. **Assistant Lecturer** for the Introduction to Engineering and Design course   *Feb – Jun 2022*
— Guided over 50 students throughout the semester, providing academic support, delivering lectures, and serving as an academic tutor for the preparation of final project exhibition.

Skills, Achievements, & Other Experiences

Skills:
Geospatial Data Science: Remote sensing/image classification, Google Earth Engine, ArcGIS, QGIS
Data Analytics & Visualization: Python, HTML+CSS, Excel
Infrastructure Planning: Environmental impact assessment, Land use planning, policy understanding and compliance
Research: Adaptability, literature reviews, technical memorandums, recommendation framework

International Publications:
1. Santoso, C., Sakti, A. D., **Al Faruqi, I.**, Adillah, K. P., Mahezs, F. I., & Suripto, S. Z. M. (2023). Modeling habitat suitability for endemic Grizzled leaf monkey (*Presbytis comata*) using geospatial machine learning approach. Remote Sensing Applications: Society and Environment, 32. https://doi.org/10.1016/j.rsase.2023.101067 **(Published)**
2. Sakti, A.D., Santoso, C., **Al Faruqi, I.**, Adillah, K. P., Kamal, M., Sofan, P., Zain A.F.M., Hendrawan, V. S. A., Fauzi, A. I., Setiawan, Y. (2023). Spatial Conservation Prioritization of Proboscis Monkeys (*Nasalis larvatus*) on Borneo Island Using Environmental Machine Learning Approaches. *Global Ecology and Conservation*. **(Under Review)**
3. Sakti, A.D., Andani, I.G.A., Zakiar, A.D.P., Rizky, M., **Al Faruqi, I.**, Rohayani, P., Pramudya, F.S., Shalannanda, W., Wijayanto, A.W., Caraka, R.E., Deliar, A. (2023). Enhanced Future Internet Accessibility Analysis in Indonesia using Geospatial Artificial Intelligence and Remote Sensing. *Nature Communications*. **(Under Review)**

International Conference:
1. **Al Faruqi, I.**, Santoso, C., Putri Adillah, K., Nurlaila Syahid, L., and Dimara Sakti, A.: Determining the Optimal Location of Endangered Species Habitats Using Remote Sensing and Species Distribution Models to Protect Biodiversity in Indonesia, EGU General Assembly 2022, Vienna, Austria, 23–27 May 2022, EGU22-12522, https://doi.org/10.5194/egusphere-egu22-12522, 2022.

Awards:
1. **Distinction Award at ASEAN Geospatial Challenge 2023** issued by Singapore Land Authority (SLA) at Marina Bay Sands Conventre – *March 2023*
2. **First Place of ASEAN Geospatial Challenge**: National Level 2023 issued by Badan Informasi Geospasial – *February 2023*
3. **Undergraduate Grand Prize Winner iGEM Indonesian League** issued by iGEM IDL – *December 2023*
4. **2nd Winner at Datathon GEORESTART (Geospatial, Remote Sensing, and Statistics Research Competition)** issued by Dinas Komunikasi dan Informatika Jawa Barat – *October 2022*
5. **Awardee of BUMN (Badan Usaha Milik Negara) Scholarship as an ITB Outstanding Student 2023**
6. **Awardee of Pertamina Foundation Scholarship** batch 8
7. **First Place of Scientific Paper Competition** Login MERCATOR issued by KMTG Gadjah Mada University – *April 2022*

Leadership:
1. **Head of Implementation of The Profession**, Ikatan Mahasiswa Geodesi ITB – *June 2022-March 2023*
— Led ten members in three big projects for real implementation of geodesy and geomatics theory.
2. **Deputy Minister of the Ministry of Incubation and Implementation of Work**, Kabinet Keluarga Mahasiswa ITB – *Aug 2021-April 2022*
— Designed and implemented more than five flagship work programmes based on incubation and implementation of innovative works.

Portfolio:
Static Website: [Personal Wesbite of Ismail Al Faruqi](#)
— Built a static website using HTML+CSS and maintained it in VS code.

References

Prof. Ir. Ketut Wikantika, M.Eng., Ph.D.
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Head of Center for Remote Sensing, Bandung Institute of Technology (ITB)
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