MUHAMMAD AINUL FIKRI

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SUMMARY

I believe that a field of science will have a unique way of dealing with a problem. So that standing as a person who can provide various points of view to describe and solve a problem is something I have found in myself during undergo various levels of education. As an Engineer, I have technical skills in telecommunications, user experience, audio engineering, and product management, and lastly, for two years, I developed my skills with the Python programming language specially to build machine learning and deep learning algorithms. Not only that, I also always develop non-technical abilities in line with the various stages of life that I go through. On various occasions, I have been able to prove my ability as a leader, innovative, adaptive problem solver, good communicator, and ideal friend figure who is able to provide the best support for associates around me. I believe that science will continue to develop even more rapidly than it is now, the next learning process that I want to go through is career opportunities and at the same time apply what I have so far.

EDUCATION

08/2014 – 11/2018   **S.T.** in Electrical Engineering
Andalas University

Specialty: Signal and System, Communication and Digital System, Audio-engineering, User Experience

- Conducting research and analysis on the user experience from 50 participants to determine the level of user satisfaction with the use of object-based audio.
- Take an active role in various academic activities and lead several study groups in the field of telecommunications.
- Had the opportunity to develop organizational skills as a coordinator, chairman of the annual festival, and several other major activities. At graduation, I was awarded as "Bintang Aktivis Kampus" by the University.

08/2020 – 09/2022   **M.Eng.** in Electrical Engineering
Gadjah Mada University

Specialty: Advance Statistics, Classification and Pattern Recognition, Image Processing, Scientific Writing, Data Processing, AI Development.

- Develop skills in the Information Technology specialization by learning Python language and being able to carry out several small projects such as classification and pattern recognition, image classification, and forecasting.
- Understand the research process comprehensively and scientific writing.
- For my thesis research, I am developing and comparing several deep learning algorithms to detect objects using eye gaze, as the final result, my proposed algorithm got 95% accuracy.

EXPERIENCE

01/2017 – 03/2017   **Internship** in Transmission Engineer
                                                            TVRI, Bengkulu Province

- Had the opportunity to meet various teams, learned a lot about the world of broadcasting, and was trusted to operate several switching devices in the transmission section.
- Conduct research on the causes of low broadcast quality, then hold an inspection and write it down in the form of a recommendation to TVRI Bengkulu Station.

02/2019 – 11/2019   **IT and Social Media Specialist**
                                                            Ar-Risalah Waqf Foundation, Padang City

- Established new standards in design on the Foundation's social media and information accounts.
- Develop a waqf product, improve the approach taken, and present it, until it is finally accepted and implemented by the Foundation.

08/2022 – *now   **Assistant Lecturer, DTETI**
                                                            Engineering Faculty UGM, Special Region of Yogyakarta

- Prepare and evaluate the learning process of undergraduate to doctoral students at the Department of Electrical Engineering and Information Technology, Faculty of Engineering, Gadjah Mada University.
- Assisting supervisors in several international standard research that will be published.
- Take an active role in guiding several fellow master students to complete thesis research assignments.

LANGUAGES

Indonesian: Native   C2   **English**   B2

SKILLS

- **Programming –** Phyton (Machine Learning and Deep Learning, Data Science).
- **IT –** Proficient in Microsoft Office, Excel, PowerPoint, Word, and Access.
- **Design and Video Editing –** Corel Draw, Adobe Illustrator, Sony Vegas, Filmora.
- **Product Development –** User experience, Critical Thinking, Presentation, Team Management.
- **Additional –** Full clean driving license.

ACHIEVEMENT

*Latest

- Awardee of the Education Fund Management Institute (LPDP) of the Ministry of Finance, Republic of Indonesia, PK Batch 167, 2020.

- Presenter at The International Biomedical Instrumentation and Technology Conference (IBITeC), 2021.
- Presenter at IEEE International Conference on Cybernetics and Computational Intelligence (CyberneticsCom), 2022.
- Presenter at The 14th International Conference on Information Technology and Electrical Engineering (ICITEE), 2022.

*Published article in an international journal

- M. A. Fikri, P. I. Santosa and S. Wibirama, "A Review on Opportunities and Challenges of Machine Learning and Deep Learning for Eye Movements Classification," 2021 IEEE International Biomedical Instrumentation and Technology Conference (IBITeC), 2021, pp. 65-70, doi: 10.1109/IBITeC53045.2021.9649434.
- I. K. Asmar Putra, M. A. Fikri, S. A. Ishaq Alfarozi and S. Wibirama, "Review of Feature Extraction on Video-Oculography (VOG) and Electro-Oculography (EOG) Signals," 2022 IEEE International Conference on Cybernetics and Computational Intelligence (CyberneticsCom), 2022, pp. 416-420, doi: 10.1109/CyberneticsCom55287.2022.9865308.i.
- M. A. Fikri, I. K. Asmar Putra, and S. Wibirama, (Under Review IEEE) "Object Selection Using LSTM Networks for Spontaneous Gaze-Based Interaction," Submitted to 2022 14th International Conference on Information Technology and Electrical Engineering (ICITEE).

ORGANIZATION

Name of Organization	Position	Type of Organization	From	To
FKI Rabbani	Staff HR	Forum and Voluntary Asociation	Dec. 2014	Dec. 2015
Foristek FT UNAND	Head of Division Syiar	Forum and Voluntary Asociation	Feb. 2015	Dec. 2015
HMTE FT UNAND	Staff Career Development	Students Association	Jan. 2016	Jan. 2017
FKI Rabbani	Head of Division RMC	Forum and Voluntary Association	Jan. 2017	Nov. 2017
Gama Adhigana	Staff Information and Communication	Students Association	Mar. 2021	*now
HIMMPAS UGM	Head of Division Information and Communication	Students Association	Jan. 2022	*now

INTEREST

- Have a passion in teaching, currently given the trust to lead and coordinate several research colleagues in the Laboratory.
- Likes sports activities, especially badminton and cycling. Enjoyed some sci-fi themed films.
- Have a desire to develop team management skills, financial analysts, and establish start-ups in the scientific field.

SOCIAL MEDIA

- **LinkedIn -** Muhammad Ainul Fikri | LinkedIn
- **Instagram** - M Ainul Fikri (@m.fiiikr) •
- **Facebook -** M Ainul Fikri | Facebook