Muhammad Alfian Pratama

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I'm a 6th semester student curious and interested in Data Science and Machine Learning. I possess advanced proficiency in Python and R programming languages, and I have honed my skills in prominent frameworks such as TensorFlow and Flask. I am currently seeking an opportunity to expand and apply my skills through a one semester industry placement, with a particular focus on data-related roles. I am eager to delve deeper into the practical aspects of the field and gain invaluable real-world experience.

Skills

- Python | R | HTML | CSS | Javascript | Tableau | Microsoft Excel | Flask | Tensorflow | SPSS | Minitab | MySQL | NoSQL | Firebase
- Machine Learning | Data Science | Data Analytics | Statistics | Microservices | Backend | English

Education

Machine Learning Learning Path	**Bangkit Academy 2023 By Google, GoTo, & Traveloka**	*Indonesia*	**02/2023 - Current**

- "Magang dan Studi Independen Bersertifikat" Batch 4 held by Kemendikbud RI
- Student with Ahead of Schedule Status
- Accomplish 6 Specialization Courses from Coursera such as Google Data Analytics, Google IT Automation, Mathematics for Machine Learning Specialization, Machine Learning Specialization, DeepLearning.AI TensorFlow Developer Specialization, and TensorFlow: Data and Deployment Specialization

Bachelor of Data Science	**Universitas Airlangga**	*Surabaya, Indonesia*	**09/2020 - Current**

- Major in Data Science Technology (GPA 3.88/4).
- 3rd most outstanding FTMM Universitas Airlangga Student
- Related Courses: Programming Algorithm, Calculus, Linear Algebra, Parametric Statistics, Non Parametric Statistics, Probability, Computational Statistics, Mathematical Statistics, Multivariate Statistics, Stochastic Process, Survival Analysis, Data Mining, Natural Language Processing, Databases, Spatial Data   Analysis.

Work Experience

Laboratory Assistant	**FTMM Universitas Airlangga**	*Surabaya, Indonesia*	**03/2022 - 07/2022**

- Laboratory Assistant for Programming Algorithm courses.
- Assisted Lecturer for scoring practice modules and mentoring for 25 students

Projects

Bicara Pilpres (Sentiment Analysis Dashboard for Indonesian Presidential Election 2024 Candidates)	*Surabaya, Indonesia*	**12/2022 - 01/2023**

- Led the end-to-end development process such as front-end design, software architecture, machine learning model, pipeline.
- Successfully implemented a microservices architecture, utilizing Python Flask for the main website backend and machine learning API, to enhance the scalability and efficiency of the web application. Also, implemented Firebase to store data using Firebase Firestore Database (NoSQL) and Firebase Storage.
- Implemented deployment of the web application on Digital Ocean Droplets, configuring SSL certification and domain integration using Nginx. Achieved secure and reliable web hosting, ensuring optimal performance and user experience.
- Implemented Progressive Web Application (PWA) for better user experience.
- This project got Top 50 Hackfest 2023 held by GDSC Indonesia.

SIBI (Sistem Bahasa Isyarat Indonesai) Sign Language Alphabetic Classification using Mediapipe	*Surabaya, Indonesia*	**11/2022 - 12/2022**

- Implemented Tensorflow Data Generator for augmenting data to reproduce primary data.
- Utilized the power of Mediapipe to effectively extract hand landmark points, enabling the training of a cutting-edge machine learning model and the development of real-time detection capabilities.
- Achieving 94% accuracy on training data and 90% accuracy on testing data.

Organizational Experience

Leader	**GDSC Universitas Airlangga**	*Surabaya, Indonesia*	**09/2022 - Current**

- Led a core team of 16 people and engage 500+ member.
- Held 10 workshops on data science & flutter with an average of 50+ participants.

Minister of Science, Research, and Technology	**BEM FTMM Universitas Airlangga**	*Surabaya, Indonesia*	**01/2022 – 01/2023**

- Led two sub division with 5 member each sub division.
- Held 8 event impacting 400+ FTMM students and 200+ external students.

Core Team Mentor	**GDSC Universitas Airlangga**	*Surabaya, Indonesia*	**09/2021 – 07/2022**

- Be a speaker at the webinar event Info session GDSC UNAIR with the topic Data Science 101 with 100+ participants.
- Made a Syllabus for workshop, especially workshops that related to Data Science or Machine Learning.

Staff Ministry of Science and Technology	**BEM Universitas Airlangga**	*Surabaya, Indonesia*	**09/2021 – 07/2022**

- Organized Airlangga Scientific Writing Workshop and Competition, impacting 100+ students.
- Organized Airlangga Scientific Forum with 32 representative participants from every faculty