KRISNA BAYU DHARMA PUTRA

+6281952371300 | Email | Linkedin | Kaggle | Github *** This Section (Email, Linkedin, Kaggle, Github) is Clickable**

Bantul, Daerah Istimewa Yogyakarta, 55762 – Universitas Gadjah Mada

A computer science student, currently in fifth semester at Universitas Gadjah Mada, possesses a strong affinity for the dynamic realm of data. Have accumulated invaluable experience in data science through involvement in various projects, spanning Natural Language Processing (NLP), Computer Vision (CV), and Machine Learning (ML). Posseses remarkable achievements in this field include being named a finalist in several esteemed competitions. Enable to maintain academic performance proven by achieving GPA of 3.79 from the first to the fourth semester.

Internship and Experiences

Machine Learning Engineer - **Internship** Oct 2023 - Present

Fishku Indonesia

- Accepted as a Machine Engineer Intern
- Responsible for Fish Freshness detection using Deep Learning
- Creating fish classification using tensorflow and getting accuracy above 95%

Bangkit Academy Machine Learning Cohort Batch 2 - **Studi Independen** Aug 2023 - Present

Dicoding Indonesia

- Becoming of 4000+ selected applicant out of 42000 interested registrant in Bangkit Academy batch 2
- Finished all mandatory courses in coursera worth of 921 hours of machine learning course
- Creating classification of 11 foods for Nutrikita application and reach 91% Accuracy using tensorflow
- Creating Food System Reccomender for Nutrikita application
- Developing backend system to conncect the model for Nutrikita mobile app using flask
- Getting interim transkrip with all of the grade above 96

Google Developer Student Club UGM - **Experiences** Oct 2023 - Present

UGM

- Developing an early detection app utilizing flutter artificial inteligence
- Developing skin disease classification using tensorflow

Content Writer and Teacher - **Part Time** Dec 2021 – Aug 2022

StudyGez

- Search, research, and write article about college major and also teach student about Mathematics and Quantitative Knowledge

Project

Auto Generate Solution using LLM based on Sentiment and Topic Modelling - **LINK** Oct 2023

Natural Languange Processing

- Scraping Text Data from Google Play Store and X
- Manual Labelling 2000 text sentiment
- Using Various ML and DL Technique for Sentiment Analysis
- Do Topic Modelling using LDA
- Prompting Auto Solution using LLM for Generated Topic and Getting Auto Solution

Fire Segmentation using YOLOv8 and Image Processing Techniques – LINK Apr 2023

Computer Vision

- Detection fire region using YOLOV8
- Performing histogram equalization and segmentate fire region based on color
- Achieving 90 % accuracy in fire segmentation based on the ground truth for the testing data

Reporting Damaged Roads through Image Detection and Viral test using Sentiment Analysis – LINK Aug 2023

Natural Languange Processing and Computer Vision

- Performing sentiment analysis on Twitter data using IndoBert, IndoBertTweet, and CNN-LSTM, achieving 83 % F1
- Classyfing damaged road or not using YOLOV8 and achieved F1 value of 86.10 %
- Using score based system to predict will a tweet of damaged based on the road detection and sentiment level.

This project advanced to the Final of Gemastik XVI of data mining division

Image Captioning using Transformer - LINK Oct 2023

Natural Languange Processing and Computer Vision

- Creating transformer model using tensorflow
- Getting average BLEU of 55 in image captioning

Skin Disease Classification - LINK Oct 2023

Computer Vision

- Using Transfer Learning model like Restnet50, Mobilenetv2, and Inception V3 for image classification
- Getting average accuracy of 80%

Emotion Classification using BERT Embedding, INDOBERTweet, LSTM, and BI-LSTM – LINK Sep 2023

Natural Languange Processing

- Combining BERT Embedding + LSTM and BILSTM for Emotion Classification
- Using INDOBERTweet for Emotion Classification
- Achieving Accuracy of 79% and F1 of 79%.
- This Project selected as Finalist of IFest Data Analytics Unpad.

Forecasting Average Hourly Vehicle Speed using LIGHTGBM and Random Forest – LINK Aug 2023

Machine Learning

- Performing EDA on Average Speed of Vehicle in Time Series Data
- Scraping Feature from openstreetmap
- Feature engineering on the data, example : Applying Haversine to get Distant of Two Point.
- Testing 8 ML Model to get the best model
- Doing Hyperparameter Tuning for XGBRegressor, LightGBM, and Random Forest using hyperopt
- Our model achieved Rank 7 out of 125 team and are the second best team for feature engineering
- This project selected as finalist of Datathon 2023 by Ristek UI.

Sentiment Analysis of Text Data : A Machine Learning Approach for Sentiment Classification – LINK

Natural Languange Processing Apr 2023

- Performing text cleaning such as removing url and username, stop words, lowercasing, lowercasing, text tokenization, and text lemmatization
- Performing TF-IDF and N-grams representation for text
- Performing 5 machine learning model to get the best accuracy

House Prices : Advanced Regression Techniques – LINK

Machine Learning Apr 2023

- Do data cleaning on a dataset of 80+ feature
- Implementing LGBM, Linear Regression, XGBRegressor, Random Forest Regressor, SVM Regressor and tune it
- Getting final score of 0.15191

Machine Learning Translation English to Japan using Seq2Seq – LINK

Natural Languange Processing Dec 2022

- Implement Seq2Seq and LSTM for machine translation
- Implementing Beam Translation to make output of the translation

Telkom's Stock Market Prediction using Genetic Algorithm – LINK

Genetic Algorithm Dec 2022

- Implement Genetic Algorithm for stock prediction
- Make a summary of report in International Journal of Computer Science and Security (IJCSS) format

Skills & Other Experience

- **Soft Skills:** Presentation, Time Management,Problem Solving, Creative Thinking, People Development, Leadership, Analytical Thinking, Communication, Teamwork, Problem Solving, Public Speaking, Initiative, High enthusiasm and desire to learn newthings, Collaborative, Data Storytelling
- **Tools & Technologies**: Python, Tensorflow, Flask, Pytorch , Scikit-Learn, Probability & Statistic, Natural Languange Processing, Computer Vision, Machine Learning, MySQL, Spreadsheet, Jupyter Notebook, Anaconda, Web Scraping, Data Science, Canva, Data Visualzation, Microsoft Office (Word, Excel, PPT, OneNote)

Achievements

1st Place Data Science Competition Intelligo - Link
Finalist and Top 20 Gemastik XVI Data Mining Division - Link
Finalist and Top 10 Datathon by Ristek SIG Fasilkom UI - Link
Second Best Feature Engineering of Datathon by Ristek SIG Fasilkom UI - Link
Finalist and Top 10 IFest Data Analytics by Unpad - Link
Finalist and Top 10 DataQuest Objective Challenge Airnology 2.0 by FTTM UNAIR

Certifications

Machine Learning Specialization - Link
Tensorflow Develpor Specialization - Link
Mathematics For Machine Learning - Link
Tensorflow Data and Deployment - Link

Organizational Experiences

KOMATIK UGM Feb 2023 – Present
Universitas Gadjah Mada – Yogyakarta, Indonesia
Member of Data Mining and AI Division

KOTAK RISET SISTEM CERDAS Feb 2023 – Present
Universitas Gadjah Mada – Yogyakarta, Indonesia
Member of Research and Competition Division

Education

UNIVERSITAS GADJAH MADA Aug 2021 – Present
Computer Science – GPA : 3.79