KEMAL CRISANNAUFAL

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Passionate about data science, machine learning, and software engineering, with a strong understanding of front-end web development using React.js, Next.js, and Tailwind CSS. Holds a solid foundation in model development, data analysis, and AI deployments gained through academic training and hands-on project.

PERSONAL DATA

Name	: Kemal Crisannaufal
Email	: kemal.crisannaufal@gmail.com
Phone	: +6281221891720
Location	: Sumedang, Indonesia
Github	: https://github.com/kemalcrisannaufal
Profile Site	: https://kcr-portofolio.vercel.app/

EDUCATION

TELKOM UNIVERSITY September 2021 – May 2025

- Bachelor of Informatics
- GPA: 3.98 / 4.00

SMAN 1 JATINANGOR 2018 - 2021

- Natural Science (IPA)
- Final Score: 91.40

ACHIEVEMENT

Computing Competitive Programming Finalist December 2022

- Solved problems related to algorithms and university-level programming, became a finalist, and successfully finished in 5th place out of 100+ participants.

EXPERIENCE

Data Structures Practicum Assistant September 2023-January 2024

Served as a practicum assistant for the Data Structures course in the Informatics Laboratory at Telkom University

- Assisted students in understanding and applying data structure concepts through practical exercises, using C++ for implementation
- Guided students in completing weekly practicum tasks and solving related problems
- Evaluated students' work providing feedback and ensuring the proper implementation of data structures

ACTIVITIES AND PROJECTS

Portfolio Site May 2025 - Now

Developed a personal portfolio website to showcase my projects. The website includes several sections like home, about, contact, blogs, and projects.

- Built UI components using React.js and utilized Next.js
- Styled the website using Tailwind CSS and applied responsive design principles to ensure compatibility across different devices
- Integrated Firebase for storing and managing data in real-time

Naike March 2025 – April 2025

Developed Naike, an online store inspired by Nike, using React.js, Next.js, and Firebase.

- Developed features include user authentication, product search and filtering, cart, favorites, checkout, order, dummy payment, and an admin panel for managing users, products, orders, and payments.
- Built UI components using React.js and utilized Next.js
- Styled the website using Tailwind CSS and applied responsive design principles to ensure compatibility across different devices
- Integrated Firebase for storing and managing data in real-time

Avocado Ripeness Classification Using MFO-SVM August 2024 - January 2025

Final project for undergraduate thesis. The research focuses on developing an avocado ripeness classification system using machine learning and manual feature extraction.

- Conducted feature extraction using HSV, GLCM, and HOG
- Developed a classification model using a Support Vector Machine (SVM) optimized with Moth Flame Optimization (MFO) for hyperparameter selection
- The research has been published in a journal accredited by Sinta-2

Pixar's Dashboard

Developed an interactive dashboard using Tableau based on the IMDb dataset November 2024

- Converted raw data into insightful visualizations
- Cleaned and prepared data for further analysis
- Created various visualizations including bar chart, lollipop chart, butterfly chart, dot chart, and donut chart
- Implemented interactive filters to allow users to explore data by movie title
- Designed a dashboard layout focused on clarity and insight

Landing Page Clone – Netflix & Slack July 2024

Cloned landing pages inspired by Netflix and Slack using React.js

- Recreated UI components for both Netflix and Slack landing pages using React.js, Tailwind CSS, and Vite.
- Focused on UI and front-end only, replicating the look of Netflix and Slack landing pages.
- Implemented a responsive design for desktop and mobile devices.

Lung Disease Classification April 2024

Developed a web-based application to classify chest X-ray images into Normal, Pneumonia, or Tuberculosis.

- Applied image processing techniques including contrast stretching and noise reduction
- Handled class imbalance using SMOTE
- Implemented a CNN model using DenseNet-121 with transfer learning
- Integrated the trained model into the web application using Flask

Maenball Web Application March 2024 – June 2024

Final project for Platform Based Application course. Maenball is a football information system that provides football information, news, updates, and highlights.

- Developed a web-based application using the Laravel framework
- Designed the front-end using HTML, CSS, Bootstrap, and Javascript
- Implemented the back end using PHP and MySQL

Raedam September 2023-January 2024

Final project for the Object-Oriented Programming course, developed a parking system application for recording vehicles entries, parking duration, and parking transactions.

- Developed a desktop parking application using Java and Swing for the GUI
- Designed and implemented the database using MySQL for storing parking data and information
- Conducted unit testing using Junit.

Parkinson's Severity Prediction Project Using Neural Networks November 2023

Final project for the Machine Learning course

- Performed data cleaning to handle missing value and outliers
- Conducted data exploration to identify patterns within the dataset.
- Implemented regression analysis using Artificial Neural Network to predict the severity level of Parkinson's disease based on patient telemonitoring.
- Trained and evaluated the model, achieving an R2 score of 0.87.

CeLoe LMS Tel-U Mobile Redesign Project February-June 2023

Final project for the Human-Computer Interaction course

- Analyzed of an existing application design and created user personas for the application.
- Developed a new design along with its prototype based on the analysis results using Figma.
- Conducted usability testing using Maze and created a list of improvement plans.

Parking Application Design and Planning Project February-June 2023

Final project for the Software Engineering: Analysis and Design course

- Conducted elicitation for a parking application and analyzed user classes and use cases required by each user for the application.
- Analyzed and determined the functional and non-functional requirements of the application.

- Created a software requirement specification document from the analysis of requirements.
- Designed the user interface using Figma.
- Produced a software design description document as a guide for implementation.

Certifications

- Dasar Pemrograman Javascript **Dicoding** March 2024-March 2027
- Introduction to Data Science with Python **DQLab** February-2024
- Python for Data Professional Beginner **DQLab** February-2024

Skills & Others

- Skills: Next.js, React.js, Tailwind CSS, HTML, CSS, Javascript, Typescript, Firebase, Laravel, Python, Scikit-learn, Tensorflow/Keras, MS Office
- Additional Skills: Algorithm, Data Structure, Computer Vision, Digital Image Processing, Machine learning
- Language: Indonesia (native), English (Limited working proficiency)