NINDA KHOIRUNNISA

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Summary Statement

Ninda holds a master's degree in Data Science from The University of Manchester. She graduated with distinction in December 2023. During her studies, she gained knowledge, both theoretical and practical, about statistics and data science. In August 2023, she managed to finish her dissertation project which deepened her knowledge about natural language processing (NLP) and data visualisation. Currently, she has a keen interest in machine learning and artificial intelligence, especially natural language processing.

Ninda's portfolio can be accessed here.

Education

The University of Manchester, Master of Science (M. Sc)   **Manchester**
- Subject: Data Science (Computer Science Data Informatics)
- **GPA**:74/100 (180 out of 180 credits), Classification: **Distinction**   (Sept 2022 – Dec 2023)
- **Research area**: NLP (sentiment analysis, topic modeling, named entity recognition in Indonesian language)
- **Modules taken**: Understanding Databases; Understanding Data and their Environment; Statistics and Machine Learning I: Statistical Foundations; Statistics and Machine Learning II: AI, Complex Data, Computationally Intensive Statistics; Data Engineering; Applying Data Science; Principles of Digital Biology; Introduction to Health Informatics; and Dissertation.
- **Dissertation project**: This research project delves into the realm of data visualisation, sentiment analysis, and automated geotagging within the context of Indonesian news headlines related to COVID-19 vaccines. The primary objective is to develop a visualisation dashboard that offers insight into the distribution of sentiment within the local news headlines and explores the potential of Bidirectional Encoder Representations from Transformers (BERT) and Conditional Random Field (CRF) models. This study consists of four phases: news headlines data acquisition, data preprocessing, sentiment analysis with VADER, localisation of news titles with the BERT-CRF model, data visualisation by utilising HTML and CSS, and software testing. This project successfully collected news headlines data by utilising the web-scraping method and developed a web-based visualisation dashboard that has passed unit and interface tests.

Universitas Gadjah Mada (UGM), Bachelor of Information Engineering (B. Eng)   **Indonesia**
- **GPA**:3.66/4.00, *Cumlaude* and Best Graduate   (Aug 2016 – Aug 2020)
- **Research area**: data science, machine learning, artificial intelligence, natural language processing, augmented reality, mobile development

Professional Experiences

The University of Manchester.   **Manchester, UK**
Works on a collaboration project with ICO to complete one module named   (January 2023 – May
"Applying Data Science". This project aims to assess identifiability risks and   2023)
mitigation strategies of synthetic data. While working on this project, I was
in charge of creating the synthetic data by using a Generative Adversarial
Network (GAN).

PT Investo Medika Asia. A startup providing solutions in the healthcare sector in Indonesia with the help of AI-based technology.

- **Junior AI Developer**. Applied algorithm to a machine learning model that can help the decision-making process, and collect data for training and testing through web scraping.
- **Software Quality Assurance**. Make sure the feature developed by the tech team meets the requirements of the product team.

Jakarta Pusat, Indonesia
(February 2021 – June 2021)

(August 2021 – August 2022)

Universitas Gadjah Mada. One of the best, oldest, and leading universities in Indonesia

- **Assistant in Computer Network Laboratory**. Help the student to understand the module of the ongoing experiment.
- **Teaching Assistant in Linear Algebra.** Give additional courses and exercises for students in tutorial classes.
- **Teaching Assistant in Signal and System**. Give additional courses and exercises for students in tutorial classes.
- **Assistant Lecturer**. Course: Database Engineering with Lecturer: Warsun Najib, S.T, M. Sc
- **Teaching Assistant in Numerical Methods**. Give additional courses and exercises for students in tutorial classes.
- **Assistant Lecturer**. Course: Discrete Mathematics with Lecturer: Warsun Najib, S.T, M. Sc and Dr. Sri Suning Kusumawardhani, S. T., M. T.
- **Teaching Assistant of Engineering Mathematics**. Give additional courses and exercises for students in tutorial classes.

Yogyakarta, Indonesia

(September – November 2019)
(February – April 2019)
(September – November 2018)
(September – November 2018)
(February – April 2018)
(February – April 2018)
(September – November 2017)

PT. Pertamina RU IV Cilacap. The biggest oil and gas company in Indonesia

- **Internship**. Worked in Business Structure and Infrastructure Technology Division to build a new network monitoring system with cacti. The system is integrated with a chatbot in Telegram so the technician would receive a notification when a host is down

Cilacap, Jawa Tengah
(Maret – April 2019)

Exchange

Short-Term Exchange Program. Chosen as an exchange student at Ehime University, Matsuyama, japan.
- **Supervisor**: Professor Hiroshi Takahashi
- **Funded by**: Sakura Science Club and Ehime University

Japan
(October – November 2019)

Organisations and Events

SKI Al-Hannaan. Secretary	(January – December 2018)
Cendekia Teknika. Co-head of Human Resource Development Bureau.	(January – December 2018)
Cendekia Days. Coordinator of Secretarial Division.	(January – May 2017)
Pelatihan Pembelajar Sukses bagi Mahasiswa Baru KESATRIA. Staff of Trainer Division	(May – August 2017)
Cendekia Teknika. Staff of Human Resource Development Bureau	(January – December 2017)
Keluarga Mahasiswa Teknik Elektro dan Teknologi Informasi. Staff of the Public Relation Division	(January – December 2017)
Technocorner. Staff of Secretarial Division	

(September 2016 – March 2017)

Voluntaries

Anak Baik Indonesia. Branding team of non-profit organization.	(September 2016 – September 2017)
KMTETI Mengabdi. Doing charity and social activity in an orphanage in Yogyakarta.	(August 2016)

Language Proficiencies and Skills

Bahasa Indonesia (native), **English** (IELTS: overall 7.5)
Basic Programs (Microsoft Office, Corel Draw, Filmora, MovieMaker)
Programming Language (C, C#, Python, HTML, JavaScript)
Data Related (SQL, R, NoSQL, Scikit Learn, TensorFlow, PySpark, Keras, PyTorch, OpenCV)

Courses

Kaggle. Geospatial Analysis, Intermediate Machine Learning, Introduction to Deep Learning	(November 2020)
DQLab. Data Analyst Career Track.	(October 2020)
Datacamp. Machine Learning Scientist with Python (23 courses, approximately 93 hours of course activities), Machine Learning for Everyone (29 courses, approximately 115 hours of course activities).	(October 2020)
Dicoding (with Indosat Ooredoo Digital Camp Scholarship). *Belajar Machine Learning untuk Pemula* (Machine Learning for Beginner), *Belajar Dasar Visualisasi Data* (Data Visualisation for Beginner), *Memulai Pemrograman dengan Python* (Python Programming).	(June – August 2020)